

**EXPANDED CERCLA SITE INSPECTION**

**HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, JACKSON COUNTY, MISSOURI**

**Terracon Project No. 02027042  
Related Terracon Project No. 50017083  
July 31, 2002**

*Prepared for:*

**UNITED STATES GENERAL SERVICES ADMINISTRATION  
Kansas City, Missouri**

*Prepared by:*

**TERRACON  
Lenexa, Kansas**

**Terracon**



July 31, 2002

United States General Services Administration  
1500 East Bannister Road  
Kansas City, Missouri 64131-3088

Attn: Mr. Dave L. Hartshorn (6PMF)

Re: Expanded CERCLA Site Inspection  
Hardesty Federal Complex  
601-607 Hardesty Avenue  
Kansas City, Jackson County, Missouri 64116  
EPA Region 7  
EPA ID No. MON000703320  
GSA Order No. GS-06P-02-GXM-0004  
Terracon Project No. 02027042  
Related Terracon Project No. 50017083

Dear Mr. Hartshorn:

Terracon has completed the Expanded Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Expanded Site Inspection (SI) for the above-referenced site. The Expanded SI was performed in general accordance with our *Expanded CERCLA Site Inspection Proposal for the Hardesty Federal Complex*, dated March 29, 2002, Terracon Proposal No. E0202117. This report contains methods, observations, and conclusions made relative to the site. Please read the report carefully for details.

We appreciate the opportunity to be of service to you on this project and look forward to working with you in the future. If there are questions concerning the report, or if we may be of further assistance, please call.

Sincerely,

**Terracon**

A handwritten signature in black ink, appearing to read "Tracie A. Ragland".

Tracie A. Ragland  
Environmental Scientist

A handwritten signature in black ink, appearing to read "John R. Rockhold". Below the signature is a small, handwritten "for" followed by a signature that appears to read "John R. Rockhold".

John R. Rockhold, P.G., CGWP  
Senior Project Manager

TAR/JRR/  
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Arizona ■ Arkansas ■ California ■ Colorado ■ Georgia ■ Idaho ■ Illinois ■ Iowa ■ Kansas ■ Kentucky ■ Minnesota ■ Missouri  
Montana ■ Nebraska ■ Nevada ■ New Mexico ■ Oklahoma ■ Tennessee ■ Texas ■ Utah ■ Wisconsin ■ Wyoming

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## **EXPANDED CERCLA SITE INSPECTION**

### **HARDESTY FEDERAL COMPLEX 601-607 HARDESTY AVENUE KANSAS CITY, JACKSON COUNTY, MISSOURI**

**Terracon Project No. 02027042  
Related Terracon Project No. 50017083  
July 31, 2002**

#### **1. INTRODUCTION**

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), Terracon conducted an Expanded Site Inspection (SI) at the Hardesty Federal Complex in Kansas City, Jackson County, Missouri. Terracon conducted the Expanded SI in general accordance with the United States Environmental Protection Agency (EPA) "1992 Guidance for Performing Site Inspections Under CERCLA" and Terracon's Expanded CERCLA SI Proposal, Terracon Proposal No. E0202117, dated March 29, 2002.

The purpose of this investigation was to collect information concerning conditions at the Hardesty Federal Complex sufficient to assess the threat to human health and the environment posed by the site. This information was discussed in Terracon's CERCLA Preliminary Assessment (PA) report, *Hardesty Federal Complex, 601-607 Hardesty Avenue, Kansas City, Jackson County, Missouri*, dated January 11, 2002, and Terracon's Draft CERCLA SI report (Initial SI), *Hardesty Federal Complex, 601-607 Hardesty Avenue, Kansas City, Jackson County, Missouri*, dated March 15, 2002. The purpose of this investigation was to determine the need for additional investigation under CERCLA or other authority, and if appropriate, support site evaluation using the Hazard Ranking System (HRS) for proposal to the National Priorities List (NPL). The investigation included sampling groundwater to address the contamination identified at the subject site during the Initial SI activities that may be associated with historical clothing chemical pretreatment activities. Terracon proceeded with a phased approach with this expanded SI.

The purpose of the first phase of the expanded SI was to:

- Assess the source and extent of volatile organic compounds (VOCs) and Resource Conservation and Recovery Act (RCRA) Metals detected in groundwater samples collected from an area associated with storage of clothing treatment/renovation chemicals, between Buildings 6 and 9;
- Reassess the presence of RCRA Metals detected in groundwater samples collected from the on-site background boring south of Building 10;
- Determine the cost of removing and properly disposing of the bullet stop sand impacted by lead waste; and,
- Determine the appropriate method and cost of abating lead contamination detected in the dust on the firing range walls and floor.

## 2. SITE DESCRIPTION

### 2.1 Location

The Hardesty Federal Complex is located at 601-607 Hardesty Avenue in a residential/commercial area of Kansas City, Jackson County, Missouri, in the central portion of Kansas City (Figure 1). The geographic coordinates are 39° 06' 13.01" N latitude and 94° 31' 05.41" W longitude (Reference 1). The site is southeast of the intersection of Independence and Hardesty Avenues; with the entrance to the site approximately 600 feet south of the intersection.

### 2.2 Site Description

The total area of the Hardesty Federal Complex is approximately 18 acres, and is irregular in shape (Reference 4). The Hardesty Federal Complex property is located on relatively flat terrain that slopes gently toward the southeast property boundary (Reference 4). The U.S. Government Services Administration (GSA) currently owns the subject site.

As noted in Figure 1A, seven buildings are currently located at the Hardesty Federal Complex: Buildings numbered 3, 6, 7, 9, 10, 11, and 13 (each of the buildings were numbered by the GSA). These buildings were empty at the time of the PA site visit and the Initial SI site visit. The perimeter of the property is fenced by a seven-foot chain-link fence. The fencing appears to be in good condition, and there is a locked entrance gate across the access driveway to the facility from Hardesty Avenue. A secondary entrance to the site from Independence Avenue is also gated and locked. Virtually all of the site is covered with buildings or paved areas, with the exception of a small landscaped/grass-covered area (approximately 9100 square feet in size) between Buildings 6 and 9 (References 4 and 5).

### 2.3 Operational History and Waste Characteristics

A brief review of operational history and waste characteristics of Building 6, associated with historical clothing chemical pretreatment activities, and Building 9, associated with the firing range, is discussed below. Refer to Terracon's CERCLA PA report, dated January 11, 2002, and Terracon's Draft CERCLA SI report, dated March 15, 2002 for further detailed information regarding operational history and waste characteristics of Buildings 6 and 9, the subject site, and remaining site structures.

#### Building 6:

- Building 6 was originally constructed as a clothing treatment/renovation plant as part of the Chemical Warfare Service Project, operated by the Chemical Warfare Service. The purpose of the project was to treat new Army uniforms with "Impregnate I" to make them gas-resistant against chemicals such as "mustard gas." Old uniforms were to be laundered and then treated with "Impregnate I" (Reference 11).

- The following additional structures associated with the clothing treatment/renovation plant were formerly located south of Building 6, in an area currently grass-covered: a cooling tower, two pump houses, two storage tanks, and a recovery tank (Reference 11). It is unknown if these structures were located aboveground or underground. One of the pump houses was identified as Building 14 in a diagram dated December 1979 (Reference 12). Information obtained from a Phase I Environmental Site Assessment (ESA) report of the Hardesty Federal Center, prepared by Terracon, dated August 19, 1999, indicated that two or three open concrete underground rooms may have been formerly located in the grassy area to the south of Building 6 (Reference 8). These rooms were reportedly never used for their intended purpose as holding tanks for the clothing treatment process, and were filled with sand several years ago (Reference 8).
- According to the December 1979 site diagram, an existing concrete pit, 33 feet long, 14 feet wide, and 5 feet 8 inches deep, was located in the current-day grassy area along the southern exterior side of Building 6. The site diagram indicated that the floor in this pit was to be broken through in four places for drainage, that the existing concrete tank supports were to remain, and that the pit was to be filled. The pit was filled with sand or soil according to interviewee information obtained from Terracon's Phase I ESA report dated August 19, 1999 (Reference 8). Another existing concrete pit, 14 feet long, 14 feet wide, and 3 feet deep, was located approximately 40 feet south of Building 6 in the current-day grassy area. The site diagram indicated that the walls and pedestals of this pit were to be demolished to 2 feet below finish grade. The site diagram also indicated that five concrete tank supports were to be demolished to 2 feet below finish grade and that the slab was to be broken at five locations. These tank supports were depicted along the southern exterior wall of Building 6 (Reference 12). Depressions observed in the ground surface in this area during the Terracon site visits in 1999 and 2001 appear to correspond to locations on site diagrams showing the recovery tank and holding tank structures (Reference 4). Waste characteristics, if any, associated with the clothing treatment/renovation plant could not be documented or verified during the preparation of the PA.

Building 9:

- A firing range was established at the site during the construction of Building 9 in the 1940's. The firing range is located in the basement of Building 9, and is no longer in use. During Terracon's CERCLA PA and Initial SI site visits, a small bullet stop, consisting of a curved metal backstop and a sand trap, was observed at the base of the firing range, with sand in the sand trap. What appeared to be spent shell casings were observed within the sand in the bullet stop.

### 3. RESULTS OF DRAFT CERCLA INITIAL SI REPORT

During the Initial SI, sand samples collected from the bullet stop of the firing range, were submitted to TestAmerica, Inc. for Toxicity Characteristic Leaching Procedure (TCLP) lead analysis using EPA Method 6010B. TCLP analysis was performed for the purpose of determining proper disposal methods for the sand. According to laboratory analytical results, lead was detected at concentrations ranging from 554 milligrams per liter (mg/l) to 610 mg/l. The EPA TCLP regulatory level for lead is 5 mg/l. Based on these analytical results, the sand in the bullet stop is considered a characteristic hazardous waste.

Dust wipe samples collected from the floor and walls in the firing range were submitted to IATL, Inc. for lead dust wipe analysis using ASTM D3335-85a. Lead analysis was performed for the purpose of determining lead concentrations of dust which had accumulated on the floors and walls during the room's use as a firing range. Laboratory analytical results detected lead in the dust wipe samples collected from the floor at concentrations ranging from 2400 micrograms per square foot ( $\mu\text{g}/\text{ft}^2$ ) to 92,000  $\mu\text{g}/\text{ft}^2$ . Laboratory analytical results detected lead in the dust wipe samples collected from the walls at concentrations ranging from 10  $\mu\text{g}/\text{ft}^2$  to 1300  $\mu\text{g}/\text{ft}^2$ . According to the Missouri Department of Natural Resources (MDNR) Cleanup Levels for Missouri (CALM), Cleanup Levels for Surfaces and Building Interiors, Lead Abatement, Revised September 1998, "for lead abatement projects which occur within the confines of a building, the clearance criteria for dust wipe samples are as follows: Scenarios B and C: 200 micrograms of lead per square foot for floors." A clearance criteria for lead dust on walls was not provided. Scenarios B and C refer to land use scenarios of sites. Scenarios B and C represent limited site access and non-residential use which would apply to the site's current use.

Groundwater and subsurface soil samples were submitted to TestAmerica, Inc. for RCRA Metals analysis using EPA Methods 6010B/7470A, VOCs analysis using EPA Method 8260B, and semi-volatile organic compounds (SVOCs) analysis using EPA Method 8270C. RCRA Metals, VOCs, and SVOCs analyses were performed to address the potential contamination that may be present due to historical clothing chemical pretreatment activities, and storage of associated chemicals, at the subject site.

Laboratory analytical results indicate that VOCs (trichloroethylene and 1, 1, 2, 2-tetrachloroethane) and RCRA Metals (arsenic, barium, cadmium, chromium, and lead) were detected in groundwater at concentrations above the MDNR Groundwater Target Concentrations (GTARC) CALM levels from samples collected from the borings advanced in the grass-covered area. Arsenic, barium, cadmium, chromium, and lead also were detected in groundwater at concentrations above the MDNR GTARC CALM levels from samples collected from the background boring. VOCs and RCRA Metals were not detected at concentrations above the MDNR Soil Target Concentrations (STARC) CALM for subsurface soil samples collected from the background boring or from the borings advanced in the grass-covered area.

#### **4. FIRING RANGE**

Terracon has prepared a Lead Removal Work plan concerning the removal of the sand in the trap and cleaning of the bullet stop, trap, floors, walls, and ceiling of the firing range in Building 9. The *Lead Removal Work Plan, Indoor Firing Range, Building 9, Hardesty Federal Complex, Kansas City, Missouri*, Terracon Project No. 02027042, will be submitted to the GSA under separate cover.

#### **5. GROUNDWATER PATHWAY**

##### **5.1 Hydrogeology**

Refer to Terracon's CERCLA PA report, dated January 11, 2002, and Terracon's Draft CERCLA SI report, dated March 15, 2002 for detailed information regarding regional geology and hydrogeology information.

The local geology at the Hardesty Federal Complex consists of backfill materials from the surface to approximately 4 feet below ground surface (bgs), silty clay from approximately 4 feet bgs to 12 feet bgs, fine clay from 12 feet bgs to approximately 24 feet bgs, and inorganic clays from 24 feet bgs to approximately 40 feet bgs, as determined from the boring logs associated with an on-site investigation of former Underground Storage Tanks (USTs) at the subject site (References 23 and 24). According to boring logs prepared for Terracon's Draft CERCLA SI report, dated March 15, 2002, generally dry to moist fat silty clay was encountered in borings down to approximately 20 feet bgs.

Groundwater was encountered at approximately 35 feet bgs during the advancement of borings for the Expanded SI sampling activities. After installation of temporary monitoring wells and time for well re-charge, the depth to groundwater ranged from approximately 13 feet bgs to approximately 33 feet bgs. Groundwater at the site appears to flow toward the north-northeast (References 23 and 24), despite the site surface topographic gradient toward the southeast (Reference 4).

## 5.2 Targets

Refer to Terracon's CERCLA PA report, dated January 11, 2002, and Terracon's Draft CERCLA SI report, dated March 15, 2002 for detailed information regarding potential groundwater targets.

## 5.3 Sample Locations

Terracon's *Expanded CERCLA SI Proposal for the Hardesty Federal Complex*, dated March 29, 2002, proposed the following groundwater sampling locations:

- Installation and sampling of temporary monitoring wells in the vicinity of Building 10 (background sample location) and in the vicinity of, and in the grass-covered area between, Buildings 6 and 9 (the former exterior storage area of clothing treatment/renovation chemicals); and,
- Sampling existing monitoring wells installed at the site by Cape Environmental Management, Inc. (originally installed for the purpose of monitoring and characterization of petroleum-hydrocarbon contamination associated with former underground storage tanks (USTs) previously located at the site).

Except as otherwise noted herein, groundwater samples were collected in general accordance with the *Expanded CERCLA SI Proposal for the Hardesty Federal Complex*, dated March 29, 2002. Sampling probes were advanced at the site in May 2002 and June 2002 to install temporary monitoring wells. Terracon used a direct push Geoprobe® System to advance sampling probes into the subsurface at twelve locations at the site.

Sampling probe GW (groundwater)-1 was advanced in a hydrologically up-gradient position on the subject site, away from the grass-covered area between Buildings 6 and 9, in the vicinity of Building 10 (Figure 1A). This boring is believed to represent background conditions at the site. Sampling probes GW-3, GW-3A, GW-4, GW-4A, GW-5, GW-5A, GW-6, GW-7, GW-8, GW-8A, and GW-9 were advanced in the vicinity of, and within the grass-covered area between, Buildings 6 and 9, the former location of reported chemical storage associated with previous clothing treatment activities (Figure 2). Several attempts were made to advance sampling probe GW-2.

However, refusal was encountered at approximately 3 inches bgs. An additional Cape Environmental Management, Inc. (Cape) monitoring well in the vicinity of the proposed GW-2 sampling probe was substituted for this probe.

Total well depth for the temporary monitoring wells ranged from approximately 38 feet bgs to approximately 47 feet bgs. Groundwater was encountered and collected from the following sampling probes/temporary monitoring wells: GW-1, GW-3, GW-4, GW-5, GW-8, and GW-9. These temporary monitoring wells were sampled in June 2002 and July 2002 to allow for sufficient recharge of groundwater for sampling.

Three existing monitoring wells installed at the site by Cape were used by Terracon to collect groundwater samples: Cape MW (monitoring well)-4, Cape MW-6, and Cape MW-X (well number not provided in prior reports available to Terracon) (Figure 2). The total depth of the Cape wells was approximately 40 feet bgs. Groundwater was encountered in each of the Cape wells at approximately 20 feet bgs.

A total of nine groundwater samples were collected from the site in June 2002:

- One background groundwater sample (GW-1) was collected from the hydrologically up-gradient background temporary monitoring well, south of Building 10, to represent background groundwater conditions at the site.
- One groundwater sample (GW-3) was collected northeast of the grass-covered area between Buildings 6 and 9 to assess the extent of VOCs and RCRA Metals detected in groundwater samples previously collected from the area associated with storage of clothing treatment/renovation chemicals.
- One groundwater sample (GW-5) was collected within the grass-covered area between Buildings 6 and 9 to assess the source of VOCs and RCRA Metals detected in groundwater samples previously collected from the area associated with storage of clothing treatment/renovation chemicals.
- Three groundwater samples were collected from existing monitoring wells (Cape MW-4, Cape MW-6, and Cape MW-X) west of the grass-covered area, installed at the site by Cape, to assess the extent of VOCs and RCRA Metals previously detected in groundwater samples collected from the area associated with storage of clothing treatment/renovation chemicals.
- One duplicate groundwater sample (FD-GW-3) was collected during sampling activities to assess the reliability of sampling procedures and results.
- One trip blank sample (TB) was included in the sample cooler containing the groundwater samples to evaluate potential contamination from cross-contamination introduced during collection, shipping, and storage of samples.
- One field blank sample (FB) was included to test for contamination possibly introduced by sample containers and preservatives.

A total of seven groundwater samples were collected from the site in July 2002:

- One background groundwater sample (GW-1) was collected from the hydrologically up-gradient background temporary monitoring well, south of Building 10, to represent background groundwater conditions at the site.
- Two groundwater samples (GW-4 and GW-9) were collected southeast and northeast, respectively, of the grass-covered area between Buildings 6 and 9 to assess the extent of VOCs detected in groundwater samples collected in June 2002.
- One groundwater sample (GW-8) was collected in the grass-covered area between Buildings 6 and 9 to assess the source of VOCs detected in groundwater samples collected in June 2002.
- One duplicate groundwater sample (FD-GW-9) was collected during sampling activities to assess the reliability of sampling procedures and results.
- One trip blank sample (TB) was included in the sample cooler containing the groundwater samples to evaluate potential contamination from cross-contamination introduced during collection, shipping, and storage of samples.
- One field blank sample (FB) was included to test for contamination possibly introduced by sample containers and preservatives.

Table 1 presents sample numbers, locations, depth to groundwater, and objectives for the groundwater samples collected during the Expanded SI. Figure 2 shows groundwater sampling locations at the site, with the exception of GW-1, which is depicted in Figure 1A.

Groundwater samples were collected from these borings by advancing a one-inch diameter PVC perforated pipe, equipped with a 20-foot section of 0.01-slot screen. Groundwater samples to be analyzed for RCRA Metals were field filtered at the site using a 0.45 micron filter in line with the peristaltic pump. Groundwater samples to be analyzed for VOCs were not field filtered. Sufficient groundwater was available to collect a sample for RCRA Metals analysis from GW-3, GW-5, Cape MW-4, Cape MW-6, and Cape MW-X. Sufficient groundwater was available to collect a sample for VOC analysis from GW-1, GW-3, GW-4, GW-5, GW-8, GW-9, Cape MW-4, Cape MW-6, and Cape MW-X. Approximately 1 to 3 liters of groundwater were purged from each of the temporary monitoring wells and Cape wells prior to sampling.

Sufficient groundwater was not available to collect a sample for RCRA Metals analysis from GW-1. Sufficient groundwater was not available to collect a sample for RCRA Metals or VOC analysis from GW-3A, GW-4A, GW-5A, GW-6, GW-7, and GW-8A.

## 5.4 Analytical Results

A total of seven groundwater samples were submitted to Test America, Inc. for analysis of RCRA Metals using EPA Method 6010B/7470A. A total of 16 groundwater samples were submitted to Test America, Inc. for analysis of VOCs using EPA Method 8260B. RCRA Metals and VOCs analyses were performed to address the potential contamination that may be present due to historical clothing chemical pretreatment activities at the subject site.

Table 2 presents the RCRA Metals laboratory analytical results for the groundwater samples collected in June 2002. Table 3 presents the VOC laboratory analytical results for the groundwater samples collected in June 2002. Table 4 presents the VOC laboratory analytical results for the groundwater samples collected in July 2002. A copy of the Test America, Inc. analytical results report is in Appendix C (Reference 44). The laboratory analytical results were compared to the MDNR GTARC CALM, dated September 1, 2001, to determine potentially hazardous concentration levels of the analytes detected. The following summarizes the groundwater analytical results:

According to laboratory analytical results, RCRA Metals such as arsenic, barium, cadmium, and chromium were detected at concentrations above the laboratory report limits for each respective analyte but below the MDNR GTARC CALM in the groundwater samples collected. No analytes were detected above the laboratory report limits for the FB RCRA Metals sample.

According to laboratory analytical results, VOCs such as Trichloroethene (TCE) detected in CAPE MW-X; sec-Butylbenzene and 1, 2-Dichlorobenzene detected in CAPE MW-6; 1, 2-Dichloroethane (DCA), cis-1, 2-Dichloroethene (DCE), and trans-1, 2-DCE detected in GW-5; Acetone, 2-Butanone, cis-1, 2-DCE, and Tetrachloroethene (PCE) detected in FD-GW-3; Acetone, 2-Butanone, 1, 4-Dichlorobenzene, cis-1, 2-DCE, and trans-1, 2-DCE detected in GW-4; TCE detected in GW-8; and 1, 2-Dichloropropane detected in GW-9 and FD-GW-9 were detected at concentrations above the laboratory report limits for each respective analyte but below the MDNR GTARC CALM.

According to laboratory analytical results, VOCs such as 1, 1, 2, 2-Tetrachloroethane (PCA) and TCE detected in GW-3; PCA, PCE, 1, 1, 2-Trichloroethane (TCA), and TCE detected in GW-5; PCA, TCA, and TCE detected in FD-GW-3; PCA, PCE, TCA, and TCE detected in GW-4; and PCA and TCE detected in GW-9 and FD-GW-9 were detected at concentrations above the MDNR GTARC CALM. These VOC analytes can typically be associated with dry-cleaning agents and their degradation products. Figure 3A depicts the VOC analytical results detected above the MDNR GTARC CALM associated with each temporary monitoring well location sampled.

No analytes were detected above the laboratory report limits for the TB and FB VOC samples. Figure 4 represents VOCs detected in groundwater samples, collected from Terracon's temporary monitoring wells and the Cape wells, at concentrations above the laboratory report limits for both the June 2002 and July 2002 sampling events.

## 5.5 Conclusions

Based on the analytical results above, VOC contaminants such as PCA, PCE, TCA, and TCE have been detected in the groundwater at the site at concentrations above the MDNR GTARC CALM. Additionally, the highest area of concentration of VOC contaminants appears to be in the grass-covered area between Buildings 6 and 9. VOCs above the MDNR GTARC CALM were not detected to the west of the grass-covered area. VOCs above the MDNR GTARC CALM were detected to the northeast and southeast of the grass-covered area, at decreasing concentrations (Figures 5A through D), suggesting that the original source of the VOC contaminants may have been located in the grass-covered area, and that the VOC contaminants have migrated toward the northeast and southeast on the site. Based on information obtained from Terracon's Phase I ESA report and Terracon's CERCLA PA report of the site, it is likely that the source of the VOC contaminants may be associated with historical clothing chemical pretreatment activities that occurred at the site during World War II. Based on the nature of the VOC contaminants (PCA, PCE, TCA, and TCE) as detected in this Expanded SI, it appears that the historical clothing chemical pretreatment activities may have involved the use of dry-cleaning agents.

There are no drinking water intakes located within 10 miles downstream of the site. The population within a four-mile radius of the Hardesty Federal Complex relies exclusively on municipal water taken from the Missouri River and its associated alluvial aquifer (Reference 25). The water from the Missouri River alluvial aquifer is pumped by 14 wells located at the Water Supply Division, approximately five miles northwest and topographically up-gradient of the Hardesty Federal Complex (Reference 25). Based on information provided by the Water Supply Division, there are no homes in the 4-mile radius of the Hardesty Federal Complex which use private wells as a source for drinking water.

## 6. SUMMARY AND CONCLUSIONS

The Hardesty Federal Complex Expanded SI was performed to attempt to assess the source and extent of VOCs and RCRA Metals detected in groundwater samples previously collected during the Initial SI activities, and to gather data necessary to evaluate the site as a candidate for the NPL. Groundwater samples were collected for this purpose.

Building 6 was originally constructed as a clothing treatment/renovation plant as part of the Chemical Warfare Service Project, operated by the Chemical Warfare Service. The purpose of the project was to treat new Army uniforms with "Impregnate I" to make them gas-resistant against chemicals such as "mustard gas." Old uniforms were to be laundered and then treated with "Impregnate I" (Reference 11). The following additional structures associated with the clothing treatment/renovation plant were formerly located south of Building 6, in an area currently grass-covered: a cooling tower, two pump houses, two storage tanks, and a recovery tank (Reference 11).

Groundwater samples were submitted to Test America, Inc. for RCRA Metals analysis using EPA Method 6010B/7470A, and VOCs analysis using EPA Method 8260B. RCRA Metals and VOC analyses were performed to address the potential contamination that may be present due to historical clothing chemical pretreatment activities, and storage of associated chemicals, at the subject site.

According to laboratory analytical results, RCRA Metals were detected at concentrations above the laboratory report limits but below the MDNR GTARC CALM in the groundwater samples collected.

According to laboratory analytical results, VOCs such as sec-Butylbenzene, 1, 2-Dichlorobenzene, Acetone, 2-Butanone, 1, 4-Dichlorobenzene, and 1,2-Dichloropropane were detected at concentrations above the laboratory report limits for each respective analyte but below the MDNR GTARC CALM.

According to laboratory analytical results, VOCs such as PCA, TCA, PCE, and TCE were detected at concentrations above the MDNR GTARC CALM. These VOC analytes can be typically associated with dry-cleaning agents and their degradation products.

The highest area of concentration of VOC contaminants appears to be in the grass-covered area between Buildings 6 and 9. VOCs above the MDNR GTARC CALM were not detected to the west of the grass-covered area. VOCs above the MDNR GTARC CALM were detected to the northeast and southeast of the grass-covered area, at decreasing concentrations, suggesting that the original source of the VOC contaminants may have been located in the grass-covered area, and that the VOC contaminants have migrated toward the northeast and southeast on the site. Based on information obtained from Terracon's Phase I ESA report and Terracon's CERCLA PA report of the site, it is likely that the source of the VOC contaminants may be associated with historical clothing chemical pretreatment activities that occurred at the site during World War II. Based on the nature of the VOC contaminants (PCA, PCE, TCA, and TCE) as detected in this Expanded SI, it appears that the historical clothing chemical pretreatment activities may have involved the use of dry-cleaning agents.

A release of potential CERCLA hazardous substances to shallow groundwater from the former on-site chemical holding tanks and clothing pre-treatment activities appears to have occurred, based on the above-discussed laboratory analytical results of the groundwater samples. However, the groundwater in the area of the site is not potable (Reference 25) and is not relied on as a source of drinking water. There are no drinking water intakes located within 10 miles downstream of the site. Although elevated levels of VOCs were detected in the groundwater samples collected from the site, it does not appear that there is a threat of contamination to drinking water supplies or an immediate threat to human health or the environment as defined in the USEPA "1991 Guidance for Performing Preliminary Assessments Under CERCLA."

## 7. REFERENCES

The references used in this report are numbered below. Refer to Terracon's CERCLA PA report, *Hardesty Federal Complex, 601-607 Hardesty Avenue, Kansas City, Jackson County, Missouri*, dated January 11, 2002, and Terracon's Draft CERCLA SI report (Initial SI), *Hardesty Federal Complex, 601-607 Hardesty Avenue, Kansas City, Jackson County, Missouri*, dated March 15, 2002, for the complete inclusion of these references. The laboratory analytical results specifically referenced for this Expanded SI are included in Appendix C of this report and are identified as Reference 44 below.

1. U.S. Environmental Protection Agency, "Standard Operating Procedure to Determine Site Latitude and Longitude Coordinates," 1991. Calculation worksheet for Hardesty Federal Complex.
2. WorldClimate.com, Average Temperature, complied from monthly data for the Kansas City/Municipal Airport between 1893 and 1993, accessed December 3, 2001.
3. National Oceanic and Atmosphere Administration, Normal Monthly Precipitation, compiled by the National Climatic Data Center, accessed December 17, 2001.
4. Tracie Ragland, Terracon, Field Log for Preliminary Assessment Reconnaissance of the Hardesty Federal Complex, Terracon Project No. 50017083, November 28, 2001.
5. Tracie Ragland, Terracon, Photodocumentation Log of the Hardesty Federal Complex Preliminary Assessment, November 28, 2001.
6. Environmental Data Resources, Inc. (EDR), Southport, Connecticut, "Sanborn Map Report, 601 Hardesty Avenue," Inquiry No. 708022.2s, 1909, 1922, 1940, and 1942.
7. Missouri Department of Natural Resources, Initial Site Screening, "Missouri Superfund Pre-CERCLIS Site Screening Form, Kansas City Records Center, Jackson County," September 11, 2000.
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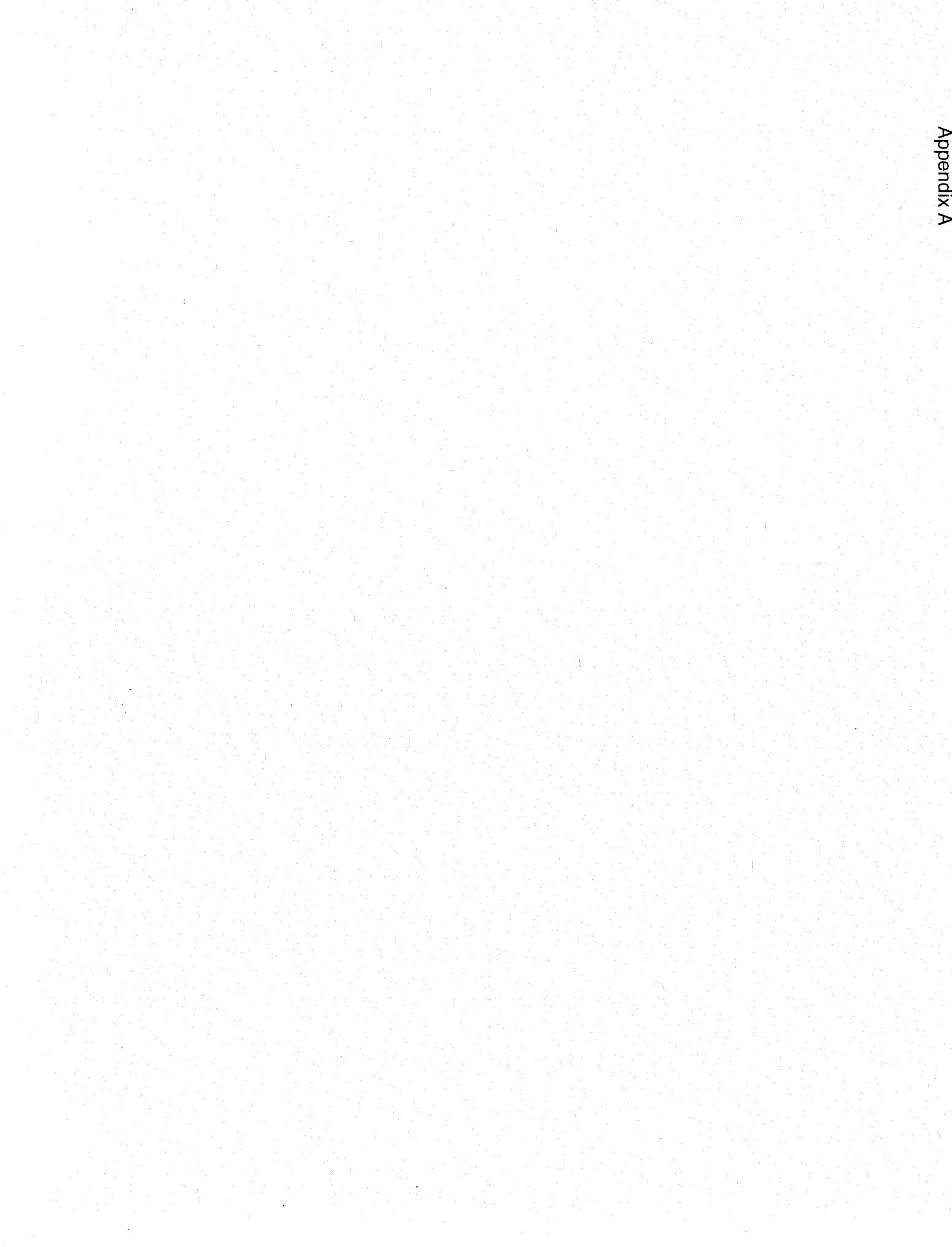
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## Appendix A



## **APPENDIX A**

Table 1: Sample Collection

Table 2: RCRA Metals Analytical Results for Groundwater Samples, June 2002

Table 3: VOC Analytical Results for Groundwater Samples, June 2002

Table 4: VOC Analytical Results for Groundwater Samples, July 2002

**TABLE 1: SAMPLE COLLECTION  
HARDESTY FEDERAL COMPLEX  
EXPANDED SITE INSPECTION**

MEDIA	SAMPLE ID	DEPTH TO GW (feet bgs)	APPROXIMATE SAMPLE LOCATION	OBJECTIVE	SAMPLING ANALYSIS	DATE	TIME
Pathway: Groundwater	GW-1	13.75	Approximately 70 feet south of Building 10 (asphalt-covered parking area).	Represent background conditions at the site.	VOCs only	6/5/02	1240
	GW-3	33.15	Approximately 50 feet northeast from the southeast corner of Building 6 (asphalt-covered parking area).	Assess the extent of VOCs and RCRA Metals.	VOCs only	7/1/02	1206
	GW-4	18.73	Approximately 75 feet southeast from the northeast corner of Building 9 (asphalt-covered parking area).	Assess the extent of VOCs and RCRA Metals.	VOCs and RCRA Metals	6/6/02	1725
	GW-5	30.5	Approximately 25 feet northwest from the northeast corner of Building 9 (grass-covered area).	Assess the source of VOCs and RCRA Metals.	VOCs only	7/1/02	1145
	GW-8	13.75	Approximately 25 feet northeast from the northwest corner of Building 9 (grass-covered area).	Assess the source of VOCs and RCRA Metals.	VOCs and RCRA Metals	6/6/02	1740
	GW-9	19.35	Approximately 200 feet northeast from the southeast corner of Building 6 (asphalt-covered parking area).	Assess the extent of VOCs and RCRA Metals.	VOCs only	7/1/02	1215
	Cape MW-4	20	Approximately 130 feet south of Cape MW-6 (asphalt-covered parking area).	Assess the extent of VOCs and RCRA Metals.	VOCs only	7/1/02	1130
	Cape MW-6	20	Approximately 50 feet southwest from the southwest corner of Building 6 (asphalt-covered parking area).	Assess the extent of VOCs and RCRA Metals.	VOCs and RCRA Metals	6/5/02	1138
	Cape MW-X	20	Approximately 60 feet northwest from the southwest corner of Building 6 (asphalt-covered parking area).	Assess the extent of VOCs and RCRA Metals.	VOCs and RCRA Metals	6/5/02	1225
QA/QC	TB	-	Onsite.	Trip blank (Distilled/Deionized Water).	VOCs only	6/5/02	1210
	FB	-	Onsite.	Field blank (Distilled/Deionized Water).	VOCs and RCRA Metals	6/6/02	-
	FD-GW-3	33.15	Approximately 50 feet northeast from the southeast corner of Building 6 (asphalt-covered parking area).	Duplicate of GW-3.	VOCs and RCRA Metals	7/1/02	1725
	FD-GW-9	19.35	Approximately 200 feet northeast from the southeast corner of Building 6 (asphalt-covered parking area).	Duplicate of GW-9.	VOCs only	6/6/02	1130

bgs = below ground surface

FD = Field Duplicate

FB = Field Blank

GW = Groundwater

ID = Identification

QA/QC = Quality Assurance and Quality Control

RCRA = Resource Conservation and Recovery Act

TB = Trip Blank

VOCs = Volatile Organic Compounds



**HARDESTY FEDERAL COMPLEX**  
**Table 2: RCRA Metals Analytical Results for Groundwater Samples, June 2002**

Sample ID	Date Collected	Date Lab Received	Date Analyzed	Analyte	Result	Report Units	Method	MDNR GTARC CALM
CAPE-4	6/5/02	6/7/02	6/8/02	Arsenic	< 0.0050	0.005 mg/l	6010B	
CAPE-4	6/5/02	6/7/02	6/8/02	Barium	0.048	0.01 mg/l	6010B	2
CAPE-4	6/5/02	6/7/02	6/8/02	Cadmium	< 0.0010	0.001 mg/l	6010B	
CAPE-4	6/5/02	6/7/02	6/8/02	Chromium	< 0.0050	0.005 mg/l	6010B	
CAPE-4	6/5/02	6/7/02	6/8/02	Lead	< 0.0030	0.003 mg/l	6010B	
CAPE-4	6/5/02	6/7/02	6/8/02	Selenium	< 0.0050	0.005 mg/l	6010B	
CAPE-4	6/5/02	6/7/02	6/8/02	Silver	< 0.0050	0.005 mg/l	6010B	
CAPE-4	6/5/02	6/7/02	6/10/02	Mercury	< 0.00020	0.0002 mg/l	7470A	
CAPE-X	6/5/02	6/7/02	6/8/02	Arsenic	< 0.0050	0.005 mg/l	6010B	
CAPE-X	6/5/02	6/7/02	6/8/02	Barium	0.079	0.01 mg/l	6010B	2
CAPE-X	6/5/02	6/7/02	6/8/02	Cadmium	< 0.0010	0.001 mg/l	6010B	
CAPE-X	6/5/02	6/7/02	6/8/02	Chromium	< 0.0050	0.005 mg/l	6010B	
CAPE-X	6/5/02	6/7/02	6/8/02	Lead	< 0.0030	0.003 mg/l	6010B	
CAPE-X	6/5/02	6/7/02	6/8/02	Selenium	< 0.0050	0.005 mg/l	6010B	
CAPE-X	6/5/02	6/7/02	6/8/02	Silver	< 0.0050	0.005 mg/l	6010B	
CAPE-X	6/5/02	6/7/02	6/10/02	Mercury	< 0.00020	0.0002 mg/l	7470A	
CAPE-6	6/5/02	6/7/02	6/8/02	Arsenic	0.034	0.005 mg/l	6010B	0.05
CAPE-6	6/5/02	6/7/02	6/8/02	Barium	0.751	0.01 mg/l	6010B	2
CAPE-6	6/5/02	6/7/02	6/8/02	Cadmium	0.004	0.001 mg/l	6010B	0.005
CAPE-6	6/5/02	6/7/02	6/8/02	Chromium	0.007	0.005 mg/l	6010B	0.1
CAPE-6	6/5/02	6/7/02	6/8/02	Lead	< 0.0030	0.003 mg/l	6010B	
CAPE-6	6/5/02	6/7/02	6/8/02	Selenium	< 0.0050	0.005 mg/l	6010B	
CAPE-6	6/5/02	6/7/02	6/8/02	Silver	< 0.0050	0.005 mg/l	6010B	
CAPE-6	6/5/02	6/7/02	6/10/02	Mercury	< 0.00020	0.0002 mg/l	7470A	
FB	6/6/02	6/7/02	6/8/02	Arsenic	< 0.0050	0.005 mg/l	6010B	
FB	6/6/02	6/7/02	6/8/02	Barium	< 0.0100	0.01 mg/l	6010B	
FB	6/6/02	6/7/02	6/8/02	Cadmium	< 0.0010	0.001 mg/l	6010B	
FB	6/6/02	6/7/02	6/8/02	Chromium	< 0.0050	0.005 mg/l	6010B	
FB	6/6/02	6/7/02	6/8/02	Lead	< 0.0030	0.003 mg/l	6010B	
FB	6/6/02	6/7/02	6/8/02	Selenium	< 0.0050	0.005 mg/l	6010B	
FB	6/6/02	6/7/02	6/8/02	Silver	< 0.0050	0.005 mg/l	6010B	
FB	6/6/02	6/7/02	6/10/02	Mercury	< 0.00020	0.0002 mg/l	7470A	
GW-3	6/6/02	6/7/02	6/8/02	Arsenic	< 0.0050	0.005 mg/l	6010B	
GW-3	6/6/02	6/7/02	6/8/02	Barium	0.315	0.01 mg/l	6010B	2
GW-3	6/6/02	6/7/02	6/8/02	Cadmium	< 0.0010	0.001 mg/l	6010B	
GW-3	6/6/02	6/7/02	6/8/02	Chromium	< 0.0050	0.005 mg/l	6010B	
GW-3	6/6/02	6/7/02	6/8/02	Lead	< 0.0030	0.003 mg/l	6010B	
GW-3	6/6/02	6/7/02	6/8/02	Selenium	< 0.0050	0.005 mg/l	6010B	
GW-3	6/6/02	6/7/02	6/8/02	Silver	< 0.0050	0.005 mg/l	6010B	
GW-3	6/6/02	6/7/02	6/10/02	Mercury	< 0.00020	0.0002 mg/l	7470A	
FD-GW-3	6/6/02	6/7/02	6/8/02	Arsenic	< 0.0050	0.005 mg/l	6010B	
FD-GW-3	6/6/02	6/7/02	6/8/02	Barium	0.317	0.01 mg/l	6010B	2
FD-GW-3	6/6/02	6/7/02	6/8/02	Cadmium	0.001	0.001 mg/l	6010B	0.005
FD-GW-3	6/6/02	6/7/02	6/8/02	Chromium	< 0.0050	0.005 mg/l	6010B	
FD-GW-3	6/6/02	6/7/02	6/8/02	Lead	< 0.0030	0.003 mg/l	6010B	
FD-GW-3	6/6/02	6/7/02	6/8/02	Selenium	< 0.0050	0.005 mg/l	6010B	
FD-GW-3	6/6/02	6/7/02	6/8/02	Silver	< 0.0050	0.005 mg/l	6010B	
FD-GW-3	6/6/02	6/7/02	6/10/02	Mercury	< 0.00020	0.0002 mg/l	7470A	
GW-5	6/6/02	6/7/02	6/8/02	Arsenic	< 0.0050	0.005 mg/l	6010B	
GW-5	6/6/02	6/7/02	6/8/02	Barium	0.141	0.01 mg/l	6010B	2
GW-5	6/6/02	6/7/02	6/8/02	Cadmium	0.001	0.001 mg/l	6010B	0.005
GW-5	6/6/02	6/7/02	6/8/02	Chromium	< 0.0050	0.005 mg/l	6010B	
GW-5	6/6/02	6/7/02	6/8/02	Lead	< 0.0030	0.003 mg/l	6010B	
GW-5	6/6/02	6/7/02	6/8/02	Selenium	< 0.0050	0.005 mg/l	6010B	
GW-5	6/6/02	6/7/02	6/8/02	Silver	< 0.0050	0.005 mg/l	6010B	
GW-5	6/6/02	6/7/02	6/10/02	Mercury	< 0.00020	0.0002 mg/l	7470A	

CALM = Cleanup Levels for Missouri

FB = Field Blank

FD = Field Duplicate

GTARC = Groundwater Target Concentration

GW = Groundwater

ID = Identification

MDNR = Missouri Department of Natural Resources

mg/l = milligrams per liter = parts per million (ppm)

RCRA = Resource Conservation and Recovery Act



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**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

Sample ID	Date Collected	Date Received	Date Analyzed	Analyte	Result	Report Limit	MDNR GTARC
						Units	CALM
GW-1	6/ 5/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,1,2,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Tetrachloroethene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Trichloroethene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B
GW-1	6/ 5/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Bromochloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B

# HARDESTY FEDERAL COMPLEX

**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,1,2,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Tetrachloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Trichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-4	6/ 5/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Bromochloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B

# HARDESTY FEDERAL COMPLEX

**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,1,2,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Tetrachloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Trichloroethene	0.0032	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-X	6/ 5/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	sec-Butylbenzene	0.0067	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	0.0045	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B

**HARDESTY FEDERAL COMPLEX**

**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,1,2,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Tetrachloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Trichloroethene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B
CAPE-6	6/ 5/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Bromochloromethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,1,2,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Tetrachloroethene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Trichloroethene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B

**HARDESTY FEDERAL COMPLEX**

**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

TB	6/ 5/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B
TB	6/ 5/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Bromo-chloromethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,1,2,2-Tetrachloroethane	0.0211	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Tetrachloroethene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Trichloroethene	0.0799	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B
GW-3	6/ 6/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Bromo-chloromethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B

**HARDESTY FEDERAL COMPLEX**

**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

FB	6/ 6/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	4-Methyl-1-pentanone	< 0.0100	0.01 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,1,2,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Tetrachloroethene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Trichloroethene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B
FB	6/ 6/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Acetone	< 0.0500	0.05 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Benzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Bromochloromethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Bromoform	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Bromomethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Chloroethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Chloroform	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Chloromethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichloroethane	0.0028	0.002 mg/l	8260B
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B
						0.005	

**HARDESTY FEDERAL COMPLEX**

**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

GW-5	6/ 6/02	6/ 7/02	6/11/02	cis-1,2-Dichloroethene	0.0273	0.002 mg/l	8260B	0.07
GW-5	6/ 6/02	6/ 7/02	6/11/02	trans-1,2-Dichloroethene	0.0023	0.002 mg/l	8260B	0.1
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Naphthalene	< 0.0050	0.005 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Styrene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/12/02	1,1,2,2-Tetrachloroethane	0.269	0.02 mg/l	8260B	0.0003
GW-5	6/ 6/02	6/ 7/02	6/11/02	Tetrachloroethene	0.0196	0.002 mg/l	8260B	0.005
GW-5	6/ 6/02	6/ 7/02	6/11/02	Toluene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,1,2-Trichloroethane	0.0112	0.002 mg/l	8260B	0.005
GW-5	6/ 6/02	6/ 7/02	6/12/02	Trichloroethene	2.07	0.2 mg/l	8260B	0.005
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B	
GW-5	6/ 6/02	6/ 7/02	6/11/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Acetone	0.0161	0.05 mg/l	8260B	none
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Benzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Bromobenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Bromoform	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Bromomethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	2-Butanone	0.0138	0.05 mg/l	8260B	none
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	n-Butylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	sec-Butylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	t-Butylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Carbon disulfide	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Carbon tetrachloride	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Chlorobenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Chloroethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Chloroform	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Chlormethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	2-Chlorotoluene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	4-Chlorotoluene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Dibromochloromethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2-Dibromoethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Dibromomethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,3-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,4-Dichlorobenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Dichlorodifluoromethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,1-Dichloroethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2-Dichloroethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,1-Dichloroethene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	cis-1,2-Dichloroethene	0.0072	0.002 mg/l	8260B	0.07
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	trans-1,2-Dichloroethene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,3-Dichloropropane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	2,2-Dichloropropane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,1-Dichloropropene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	cis-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	trans-1,3-Dichloropropene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Ethylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Hexachlorobutadiene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Isopropylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	4-Isopropyltoluene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Methylene chloride	< 0.0050	0.005 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Naphthalene	< 0.0050	0.005 mg/l	8260B	

**HARDESTY FEDERAL COMPLEX**  
**Table 3: VOC Analytical Results for Groundwater Samples, June 2002**

FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	n-Propylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Styrene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,1,1,2-Tetrachloroethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,1,2,2-Tetrachloroethane	0.166	0.002 mg/l	8260B	0.0003
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Tetrachloroethene	0.0013	0.002 mg/l	8260B	0.005
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Toluene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2,3-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2,4-Trichlorobenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,1,1-Trichloroethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,1,2-Trichloroethane	0.0084	0.002 mg/l	8260B	0.005
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Trichloroethene	0.239	0.02 mg/l	8260B	0.005
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2,3-Trichloropropane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,2,4-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	1,3,5-Trimethylbenzene	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Vinyl chloride	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Xylenes (Total)	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Bromodichloromethane	< 0.0020	0.002 mg/l	8260B	
FD-GW-3	6/ 6/02	6/ 7/02	6/12/02	Trichlorofluoromethane	< 0.0020	0.002 mg/l	8260B	

CALM = Cleanup Levels for Missouri

FB = Field Blank

FD = Field Duplicate

GTARC = Groundwater Target Concentration

GW = Groundwater

ID = Identification

MDNR = Missouri Department of Natural Resources

mg/l = milligrams per liter = parts per million (ppm)

RCRA = Resource Conservation and Recovery Act

TB = Trip Blank

VOCs = Volatile Organic Compounds

Highlighted cells indicate laboratory analytical results for samples which exceed the MDNR GTARC CALM



**HARDESTY FEDERAL COMPLEX**  
**Table 4: VOC Analytical Results for Groundwater Samples, July 2002**

Sample ID	Date Collected	Date Received	Date Analyzed	Analyte	Result	Report Limit	Units	Method	MDNR GTARC CALM
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Acetone	< 0.0500	0.05	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Benzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Bromobenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Bromoform	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Bromomethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	2-Butanone	< 0.0500	0.05	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	n-Butylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	sec-Butylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	t-Butylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Carbon disulfide	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Carbon tetrachloride	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Chlorobenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Chloroethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Chloroform	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Chloromethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	2-Chlorotoluene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	4-Chlorotoluene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Dibromochloromethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromoethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Dibromomethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichlorobenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichlorobenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,4-Dichlorobenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Dichlorodifluoromethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloroethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,2-Dichloroethene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,2-Dichloroethene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloropropane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichloropropane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	2,2-Dichloropropane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloropropene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,3-Dichloropropene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,3-Dichloropropene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Ethylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Hexachlorobutadiene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	2-Hexanone	< 0.0100	0.01	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Isopropylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	4-Isopropyltoluene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	4-Methyl-2-pentanone	< 0.0100	0.01	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Methylene chloride	< 0.00500	0.005	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Naphthalene	< 0.00500	0.005	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	n-Propylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Styrene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1,2-Tetrachloroethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2,2-Tetrachloroethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Tetrachloroethene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Toluene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichlorobenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trichlorobenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1-Trichloroethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2-Trichloroethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Trichloroethene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichloropropane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trimethylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	1,3,5-Trimethylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Vinyl chloride	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Xylenes (Total)	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Bromodichloromethane	< 0.00100	0.001	mg/l	8260B	
GW-1	7/ 1/02	7/ 2/02	7/ 6/02	Trichlorofluoromethane	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Acetone	0.0154	0.05	mg/l	8260B	none
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Benzene	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Bromobenzene	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Bromochloromethane	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Bromoform	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Bromomethane	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	2-Butanone	0.012	0.05	mg/l	8260B	none
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	n-Butylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	sec-Butylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	t-Butylbenzene	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Carbon disulfide	< 0.00100	0.001	mg/l	8260B	
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Carbon tetrachloride	< 0.00100	0.001	mg/l	8260B	

**HARDESTY FEDERAL COMPLEX**  
**Table 4: VOC Analytical Results for Groundwater Samples, July 2002**

GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Chlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Chloroethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Chloroform	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Chloromethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	2-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	4-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Dibromochloromethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromoethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Dibromomethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,4-Dichlorobenzene	0.0005	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Dichlorodifluoromethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloroethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,2-Dichloroethene	0.039	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,2-Dichloroethene	0.0056	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	2,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Ethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Hexachlorobutadiene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Isopropylbenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	4-Isopropyltoluene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Methylene chloride	< 0.00500	0.005 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Naphthalene	< 0.00500	0.005 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	n-Propylbenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Styrene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2,2-Tetrachloroethane	0.124	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Tetrachloroethene	0.0057	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Toluene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1-Trichloroethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2-Trichloroethane	0.0075	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 7/02	Trichloroethene	0.812	0.01 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichloropropane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	1,3,5-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Vinyl chloride	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Xylenes (Total)	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Bromodichloromethane	< 0.00100	0.001 mg/l	8260B
GW-4	7/ 1/02	7/ 2/02	7/ 6/02	Trichlorofluoromethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Acetone	< 0.0500	0.05 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Benzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Bromobenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Bromochloromethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Bromoform	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Bromomethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	n-Butylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	sec-Butylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	t-Butylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Carbon disulfide	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Carbon tetrachloride	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Chlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Chloroethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Chloroform	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Chloromethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	2-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	4-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Dibromochloromethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2-Dibromoethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Dibromomethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,3-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,4-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Dichlorodifluoromethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,1-Dichloroethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2-Dichloroethane	0.075		

**HARDESTY FEDERAL COMPLEX**  
**Table 4: VOC Analytical Results for Groundwater Samples, July 2002**

GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,1-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	cis-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	trans-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,3-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	2,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,1-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	cis-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	trans-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Ethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Hexachlorobutadiene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Isopropylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	4-Isopropyltoluene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Methylene chloride	< 0.00500	0.005 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Naphthalene	< 0.00500	0.005 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	n-Propylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Styrene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,1,1,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,1,2,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Tetrachloroethene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Toluene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2,3-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2,4-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,1,1-Trichloroethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,1,2-Trichloroethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Trichloroethene	0.0011	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2,3-Trichloropropane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,2,4-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	1,3,5-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Vinyl chloride	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Xylenes (Total)	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Bromodichloromethane	< 0.00100	0.001 mg/l	8260B
GW-8	7/ 1/02	7/ 2/02	7/ 7/02	Trichlorofluoromethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Acetone	< 0.0500	0.05 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Benzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromobenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromoform	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromomethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	n-Butylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	sec-Butylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	t-Butylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Carbon disulfide	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Carbon tetrachloride	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chloroethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chloroform	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chloromethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	4-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Dibromochloromethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromoethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Dibromomethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,4-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Dichlorodifluoromethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloroethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloropropane	0.0008	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Ethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Hexachlorobutadiene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Isopropylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	4-Isopropyltoluene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Methylene chloride	< 0.00500	0.005 mg/l	8260B

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**Table 4: VOC Analytical Results for Groundwater Samples, July 2002**

GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Naphthalene	< 0.00500	0.005 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	n-Propylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Styrene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2,2-Tetrachloroethane	0.001	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Tetrachloroethene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Toluene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1-Trichloroethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2-Trichloroethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Trichloroethene	0.0191	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichloropropane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,3,5-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Vinyl chloride	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Xylenes (Total)	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromodichloromethane	< 0.00100	0.001 mg/l	8260B
GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Trichlorofluoromethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Acetone	< 0.0500	0.05 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Benzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromobenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromo-chloromethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromoform	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromomethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	n-Butylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	sec-Butylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	t-Butylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Carbon disulfide	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Carbon tetrachloride	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chlorobenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chloroethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chloroform	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Chloromethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	4-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Dibromo-chloromethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromoethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Dibromomethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,4-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Dichlorodifluoromethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloroethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloropropane	0.0008	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichloropropane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloropropene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Ethylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Hexachlorobutadiene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Isopropylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	4-Isopropyltoluene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Methylene chloride	< 0.00500	0.005 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Naphthalene	< 0.00500	0.005 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	n-Propylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Styrene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2,2-Tetrachloroethane	0.0011	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Tetrachloroethene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Toluene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1-Trichloroethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2-Trichloroethane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Trichloroethene	0.0188	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichloropropane	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	1,3,5-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
FD, GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Vinyl chloride	< 0.00100	0.001 mg/l	8260B

**HARDESTY FEDERAL COMPLEX**  
**Table 4: VOC Analytical Results for Groundwater Samples, July 2002**

FD,GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Xylenes (Total)	< 0.00100	0.001 mg/l	8260B
FD,GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Bromodichloromethane	< 0.00100	0.001 mg/l	8260B
FD,GW-9	7/ 1/02	7/ 2/02	7/ 6/02	Trichlorofluoromethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Acetone	< 0.0500	0.05 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Benzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Bromobenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Bromoform	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Bromomethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	n-Butylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	sec-Butylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	t-Butylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Carbon disulfide	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Carbon tetrachloride	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Chlorobenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Chloroethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Chloroform	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Chloromethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	2-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	4-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Dibromochloromethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromoethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Dibromomethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,4-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Dichlorodifluoromethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloroethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichloropropane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	2,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloropropene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Ethylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Hexachlorobutadiene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Isopropylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	4-Isopropyltoluene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Methylene chloride	< 0.00500	0.005 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Naphthalene	< 0.00500	0.005 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	n-Propylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Styrene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Tetrachloroethene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Toluene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1-Trichloroethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2-Trichloroethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Trichloroethene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichloropropane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	1,3,5-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Vinyl chloride	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Xylenes (Total)	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Bromodichloromethane	< 0.00100	0.001 mg/l	8260B
FB	7/ 1/02	7/ 2/02	7/ 6/02	Trichlorofluoromethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Acetone	< 0.0500	0.05 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Benzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Bromobenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Bromochloromethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Bromoform	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Bromomethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	2-Butanone	< 0.0500	0.05 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	n-Butylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	sec-Butylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	t-Butylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Carbon disulfide	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Carbon tetrachloride	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Chlorobenzene	< 0.00100	0.001 mg/l	8260B

**HARDESTY FEDERAL COMPLEX**  
**Table 4: VOC Analytical Results for Groundwater Samples, July 2002**

TB	7/ 1/02	7/ 2/02	7/ 6/02	Chloroethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Chloroform	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Chloromethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	2-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	4-Chlorotoluene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromo-3-chloropropane	< 0.0100	0.01 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Dibromochloromethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dibromoethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Dibromomethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,4-Dichlorobenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Dichlorodifluoromethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloroethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloroethene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,2-Dichloroethene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,3-Dichloropropane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	2,2-Dichloropropane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,1-Dichloropropene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	cis-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	trans-1,3-Dichloropropene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Ethylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Hexachlorobutadiene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	2-Hexanone	< 0.0100	0.01 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Isopropylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	4-Isopropyltoluene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	4-Methyl-2-pentanone	< 0.0100	0.01 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Methylene chloride	< 0.00500	0.005 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Naphthalene	< 0.00500	0.005 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	n-Propylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Styrene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2,2-Tetrachloroethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Tetrachloroethene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Toluene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trichlorobenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,1-Trichloroethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,1,2-Trichloroethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Trichloroethene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,3-Trichloropropane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,2,4-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	1,3,5-Trimethylbenzene	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Vinyl chloride	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Xylenes (Total)	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Bromodichloromethane	< 0.00100	0.001 mg/l	8260B
TB	7/ 1/02	7/ 2/02	7/ 6/02	Trichlorofluoromethane	< 0.00100	0.001 mg/l	8260B

CALM = Cleanup Levels for Missouri

FB = Field Blank

FD = Field Duplicate

GTARC = Groundwater Target Concentration

GW = Groundwater

ID = Identification

MDNR = Missouri Department of Natural Resources

mg/l = milligrams per liter = parts per million (ppm)

RCRA = Resource Conservation and Recovery Act

TB = Trip Blank

VOCs = Volatile Organic Compounds

Highlighted cells indicate laboratory analytical results for samples which exceed the MDNR GTARC CALM

## Appendix B

## **APPENDIX B**

Figure 1: Site Location Map

Figure 1A: Site Layout Map

Figure 2: Site Inspection Sampling Locations

Figure 3A: Groundwater VOC Analytical Results Above Action Levels

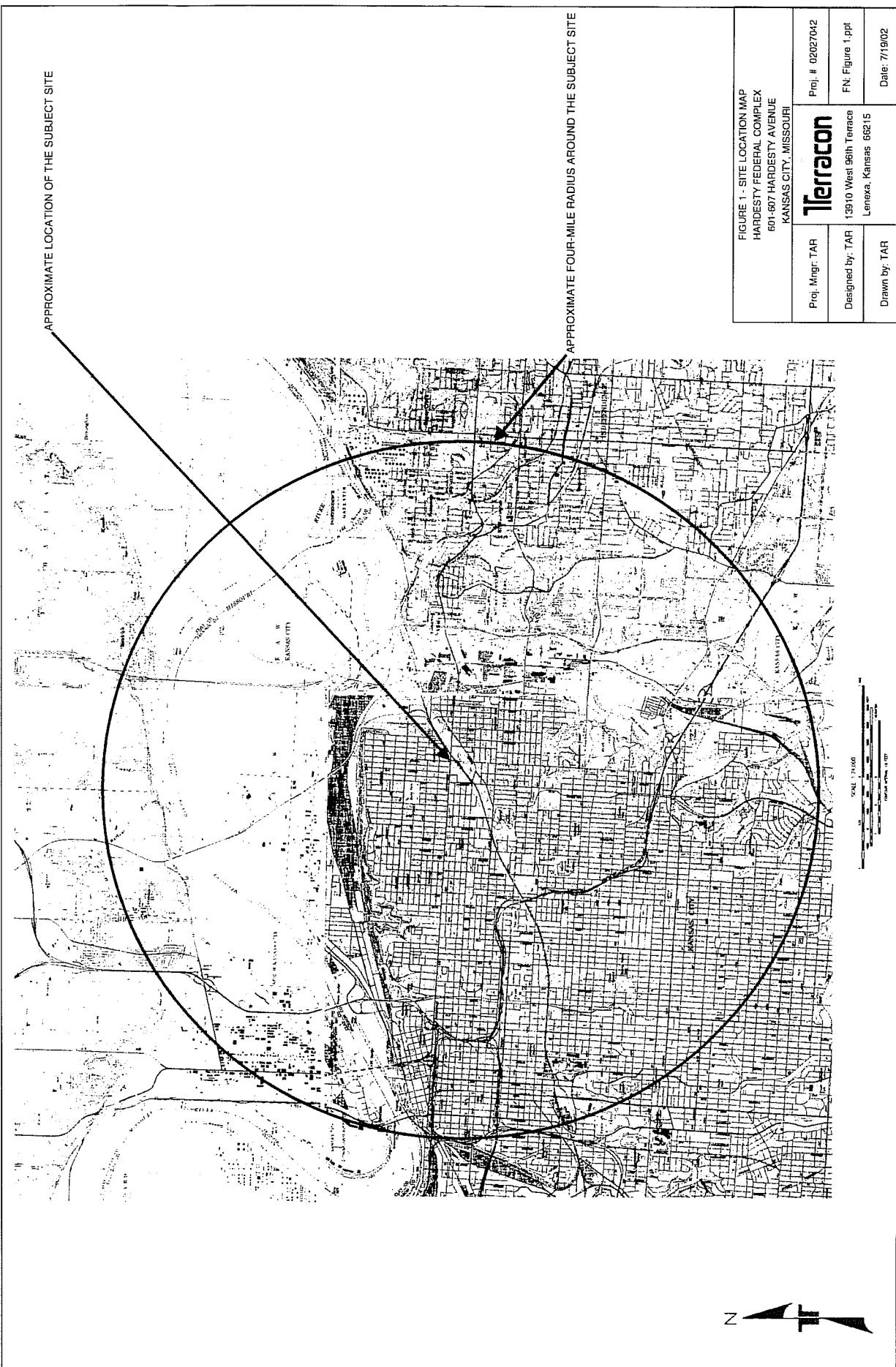
Figure 4: Groundwater VOC Analytical Results

Figure 5A: Groundwater PCA Analytical Results Above Action Levels

Figure 5B: Groundwater TCE Analytical Results Above Action Levels

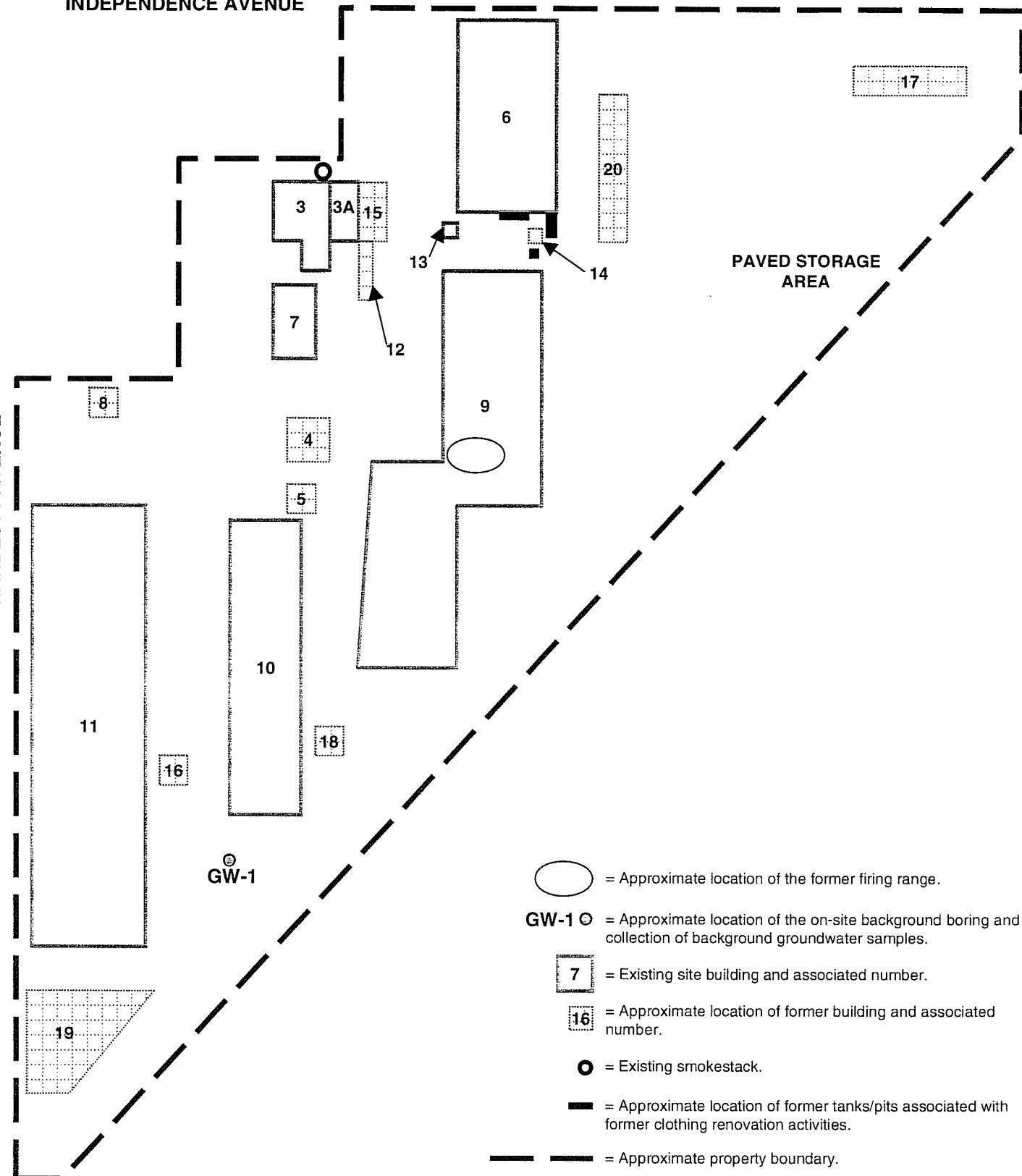
Figure 5C: Groundwater PCE Analytical Results Above Action Levels

Figure 5D: Groundwater TCA Analytical Results Above Action Levels



INDEPENDENCE AVENUE

HARDESTY AVENUE



(Oval) = Approximate location of the former firing range.

GW-1 (Circle with dot) = Approximate location of the on-site background boring and collection of background groundwater samples.

(Square) = Existing site building and associated number.

(Square with 16) = Approximate location of former building and associated number.

(Circle with dot) = Existing smokestack.

(Thick line) = Approximate location of former tanks/pits associated with former clothing renovation activities.

(Dashed line) = Approximate property boundary.

FIGURE 1A - SITE LAYOUT MAP  
HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, MISSOURI

Proj. Mngr: TAR

**Terracon**

Proj. # 02027042

Designed by: TAR

FN: Figure 1A.ppt

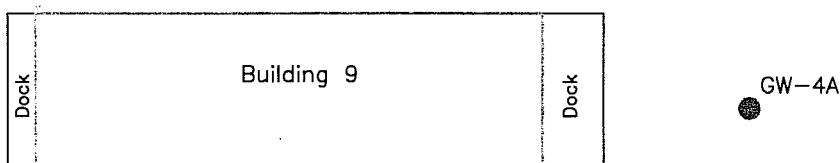
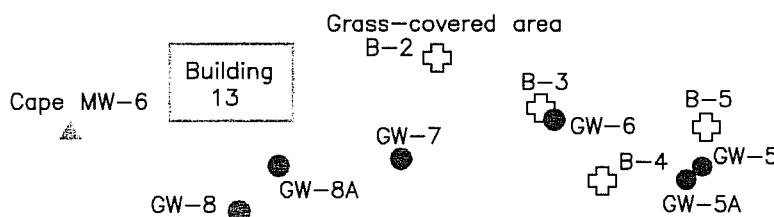
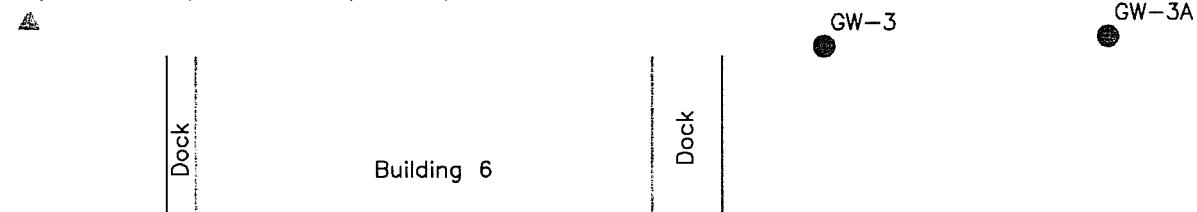
15950 College Blvd  
Lenexa, Kansas 66219

Drawn by: TAR

Date: 7/19/02

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. NOT TO SCALE.

Cape MW "X" (Number not provided)



Cape MW-4, approximately  
130 feet south of MW-6



- Approximate location of previous sample borings (B-) advanced during the initial SI.
- Approximate location of existing monitoring wells (MW) (installed by Cape).
- Approximate location of temporary monitoring wells installed by Terracon (GW-).

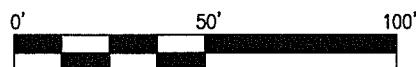
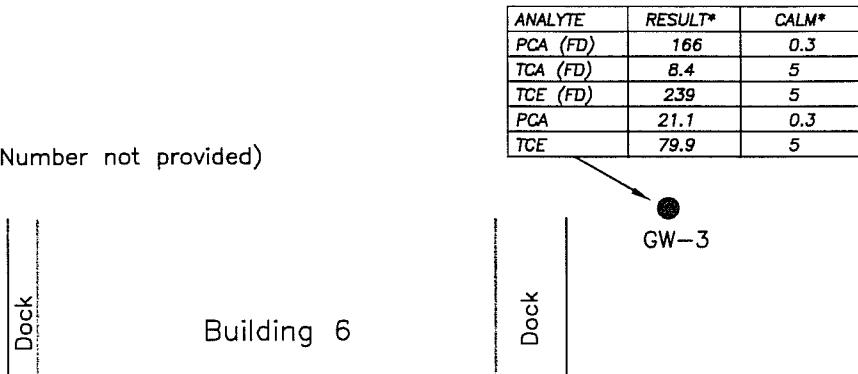


DIAGRAM IS FOR GENERAL LOCATION ONLY,  
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

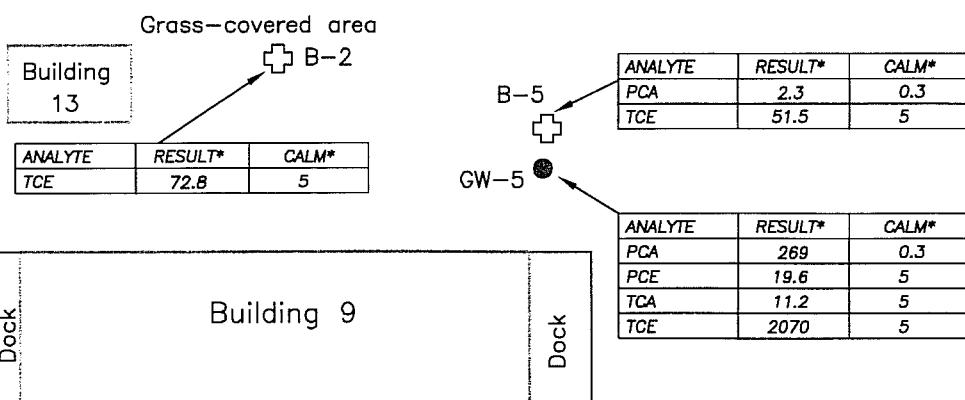
FIGURE 2 - SITE INSPECTION SAMPLING LOCATIONS  
HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, MISSOURI

Project Mngr:	TAR	Project No.	02027042
Designed By:	BTW	Scale:	1"=50'
Checked By:	TAR	Date:	7-3-02
Approved By:	TAR	Drawn By:	BTW
File Name:	FIGURE_2.DWG	Figure No.	2

Cape MW "X" (Number not provided)



Cape MW-6



Cape MW-4, approximately 130 feet south of MW-6

ANALYTE	RESULT*	CALM*
PCA	124	0.3
PCE	5.7	5
TCA	7.5	5
TCE	812	5

#### LEGEND

- Approximate location of previous sample borings advanced during the initial SI (February 2002).
- Approximate location of existing monitoring wells (MW) (installed by Cape).
- Approximate location of temporary monitoring wells installed by Terracon (June/July 2002).
- FD Field Duplicate.
- CALM Cleanup Levels for Missouri, Groundwater Target Concentrations, Sept. 1, 2001.
- \* All units in ug/L (micrograms per liter).

0' 50' 100'



DIAGRAM IS FOR GENERAL LOCATION ONLY,  
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

FIGURE 3A - GROUNDWATER VOC ANALYTICAL RESULTS ABOVE ACTION LEVELS  
HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, MISSOURI

Project Mngr:	TAR	Project No.	02027042
Designed By:	TAR	Scale:	1" = 50'
Checked By:	TAR	Date:	7-10-02
Approved By:	TAR	Drawn By:	BTW
File Name:	FIGURE_3A.DWG		
Figure No.	3A		

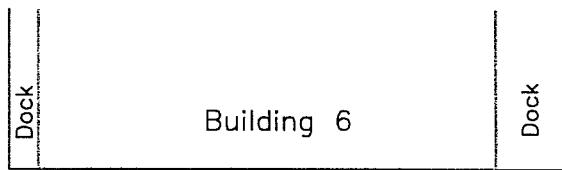
**Terracon**  
13910 WEST 96th TERRACE  
LENEXA, KANSAS 66215

ANALYTE	RESULT*	CALM*	SAMPLE DATE
PCA	1	0.3	JULY
TCE	19.1	5	JULY
1,2-Dichloropropane	0.8	5	JULY
1,2-Dichloropropane (FD)	0.8	5	JULY
PCA (FD)	1.1	0.3	JULY
TCE (FD)	18.8	5	JULY

GW-9

ANALYTE	RESULT*	CALM*	SAMPLE DATE
TCE	3.2	5	JUNE

Cape MW "X" (Number not provided)



ANALYTE	RESULT*	CALM*	SAMPLE DATE
sec-Butylbenzene	6.7	none	JUNE
1,2-Dichlorobenzene	4.5	600	JUNE

Cape MW-6

ANALYTE	RESULT*	CALM*	SAMPLE DATE
TCE	1.1	5	JULY

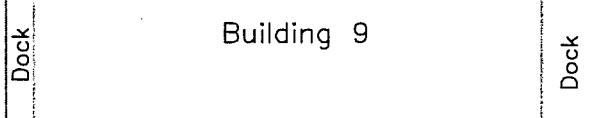
Grass-covered area

Building 13

ANALYTE	RESULT*	CALM*
TCE	72.8	5

B-2

GW-8



ANALYTE	RESULT*	CALM*	SAMPLE DATE
PCA (FD)	166	0.3	JUNE
TCA (FD)	8.4	5	JUNE
TCE (FD)	239	5	JUNE
Acetone (FD)	16.1	none	JUNE
2-Butanone (FD)	13.8	none	JUNE
cis-DCE (FD)	7.2	70	JUNE
PCE (FD)	1.3	5	JUNE
PCA	21.1	0.3	JUNE
TCE	79.9	5	JUNE

GW-3

ANALYTE	RESULT*	CALM*
PCA	2.3	0.3
TCE	51.5	5
cis-DCE	54.2	70
trans-DCE	3.8	100
PCE	3.2	5

B-5

ANALYTE	RESULT*	CALM*	SAMPLE DATE
PCA	269	0.3	JUNE
PCE	19.6	5	JUNE
TCA	11.2	5	JUNE
TCE	2070	5	JUNE
DCA	2.8	5	JUNE
cis-DCE	27.3	70	JUNE
trans-DCE	2.3	100	JUNE

ANALYTE	RESULT*	CALM*	SAMPLE DATE
PCA	124	0.3	JULY
PCE	5.7	5	JULY
TCA	7.5	5	JULY
TCE	812	5	JULY
Acetone	15.4	none	JULY
2-Butanone	12	none	JULY
1,4-Dichlorobenzene	0.5	75	JULY
cis-DCE	39	70	JULY
trans-DCE	5.6	100	JULY

GW-4

Cape MW-4, approximately  
130 feet south of MW-6LEGEND

- Approximate location of previous sample borings advanced during the initial SI (February 2002).
- Approximate location of existing monitoring wells (MW) (installed by Cape).
- Approximate location of temporary monitoring wells installed by Terracon (June/July 2002).
- FD Field Duplicate.
- CALM Cleanup Levels for Missouri, Groundwater Target Concentrations, Sept. 1, 2001.
- \* All units in ug/L (micrograms per liter).

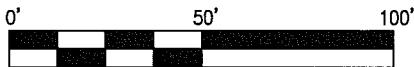
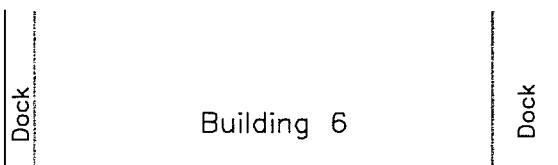


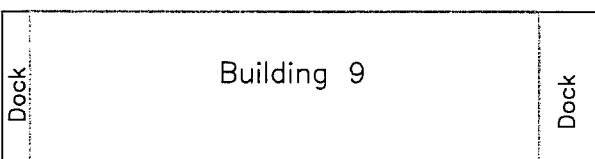
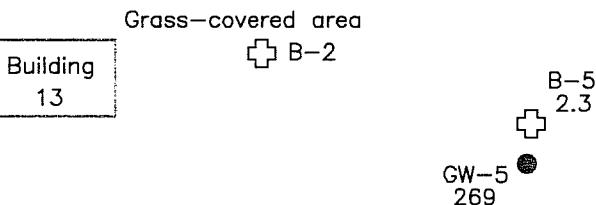
FIGURE 4 - GROUNDWATER VOC ANALYTICAL RESULTS  
HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, MISSOURI

Project Mngr:	TAR	Project No.	02027042
Designed By:	TAR	Scale:	1" = 50'
Checked By:	TAR	Date:	7-16-02
Approved By:	TAR	Drawn By:	BTW
File Name:	FIGURE_4.DWG	Figure No.	4

Cape MW "X" (Number not provided)

GW-3  
166

Cape MW-6

GW-4  
124Cape MW-4, approximately  
130 feet south of MW-6

## LEGEND

- Approximate location of previous sample borings advanced during the initial SI (February 2002).
- Approximate location of existing monitoring wells (MW) (installed by Cape).
- Approximate location of temporary monitoring wells installed by Terracon (June/July 2002).
- FD Field Duplicate.
- CALM Cleanup Levels for Missouri, Groundwater Target Concentrations, Sept. 1, 2001.
- \* All units in ug/L (micrograms per liter).

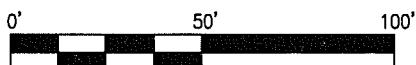
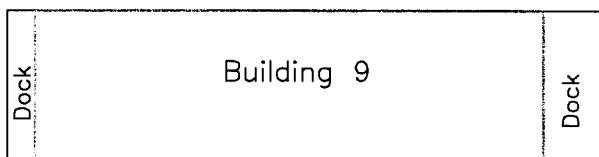
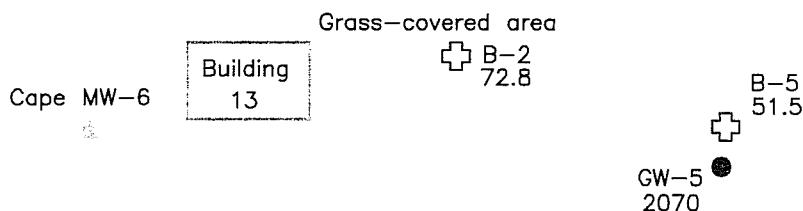
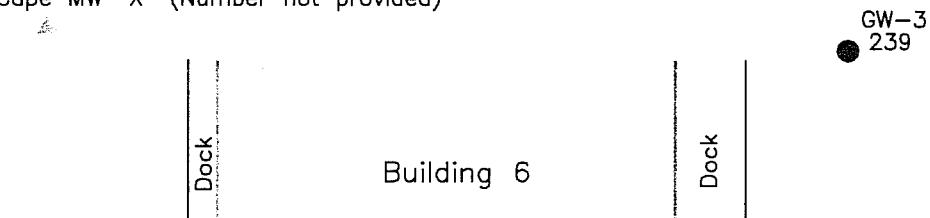


FIGURE 5A - GROUNDWATER PCA ANALYTICAL RESULTS ABOVE ACTION LEVELS  
HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, MISSOURI

Project Mngr:	TAR	Project No.	02027042
Designed By:	TAR	Scale:	1" = 50'
Checked By:	TAR	Date:	7-16-02
Approved By:	TAR	Drawn By:	BTW
File Name:	FIGURE_5A.DWG	Figure No.	5A

Cape MW "X" (Number not provided)



GW-4  
812

Cape MW-4, approximately  
130 feet south of MW-6

#### LEGEND

- Approximate location of previous sample borings advanced during the initial SI (February 2002).
- Approximate location of existing monitoring wells (MW) (installed by Cape).
- Approximate location of temporary monitoring wells installed by Terracon (June/July 2002).
- FD Field Duplicate.
- CALM Cleanup Levels for Missouri, Groundwater Target Concentrations, Sept. 1, 2001.
- \* All units in ug/L (micrograms per liter).

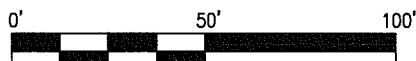


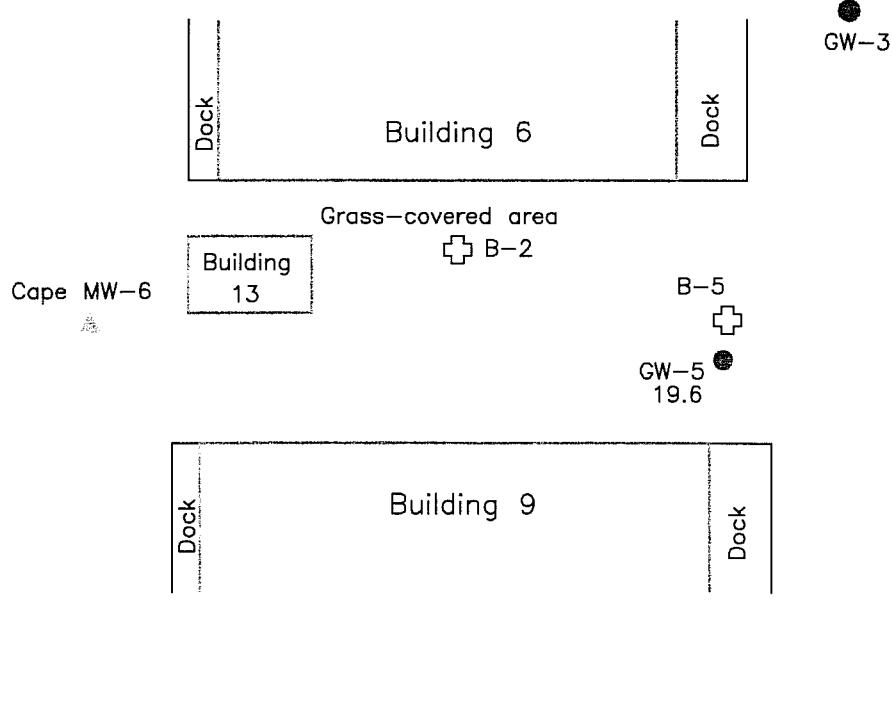
FIGURE 5B - GROUNDWATER TCE ANALYTICAL RESULTS ABOVE ACTION LEVELS  
HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, MISSOURI

Project Mngr:	TAR	Project No.	02027042
Designed By:	TAR	Scale:	1" = 50'
Checked By:	TAR	Date:	7-16-02
Approved By:	TAR	Drawn By:	BTW
File Name:	FIGURE_5B.DWG		
	Figure No. 5B		

**Terracon**  
13910 WEST 96<sup>th</sup> TERRACE  
LENEXA, KANSAS 66215

GW-9

Cape MW "X" (Number not provided)

Cape MW-4, approximately  
130 feet south of MW-6

## LEGEND

- Approximate location of previous sample borings advanced during the initial SI (February 2002).
- Approximate location of existing monitoring wells (MW) (installed by Cape).
- Approximate location of temporary monitoring wells installed by Terracon (June/July 2002).
- FD Field Duplicate.
- CALM Cleanup Levels for Missouri, Groundwater Target Concentrations, Sept. 1, 2001.
- \* All units in ug/L (micrograms per liter).

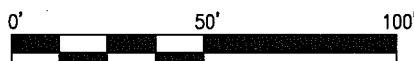
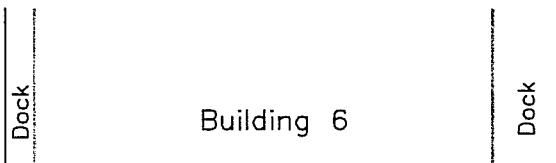
DIAGRAM IS FOR GENERAL LOCATION ONLY,  
AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

FIGURE 5C - GROUNDWATER PCE ANALYTICAL RESULTS ABOVE ACTION LEVELS HARDESTY FEDERAL COMPLEX 601-607 HARDESTY AVENUE KANSAS CITY, MISSOURI			
Project Mngr:	TAR	Project No.	02027042
Designed By:	TAR	Scale:	1" = 50'
Checked By:	TAR	Date:	7-16-02
Approved By:	TAR	Drawn By:	BTW
File Name:	FIGURE_5C.DWG		
	Figure No. 5C		

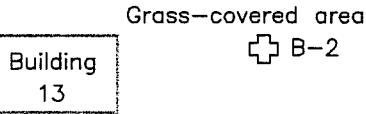
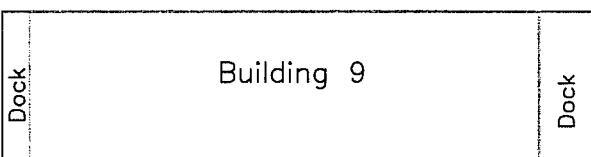
**Terracon**  
13910 WEST 96<sup>th</sup> TERRACE  
LENEXA, KANSAS 66215

GW-9

Cape MW "X" (Number not provided)

GW-3  
8.4

Cape MW-6

B-5  
GW-5  
11.2GW-4  
7.5Cape MW-4, approximately  
130 feet south of MW-6

## LEGEND

- Approximate location of previous sample borings advanced during the initial SI (February 2002).
- Approximate location of existing monitoring wells (MW) (installed by Cape).
- Approximate location of temporary monitoring wells installed by Terracon (June/July 2002).
- FD Field Duplicate.
- CALM Cleanup Levels for Missouri, Groundwater Target Concentrations, Sept. 1, 2001.
- \* All units in ug/L (micrograms per liter).

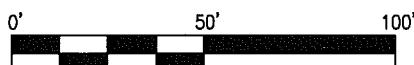


FIGURE 5D - GROUNDWATER TCA ANALYTICAL RESULTS ABOVE ACTION LEVELS  
HARDESTY FEDERAL COMPLEX  
601-607 HARDESTY AVENUE  
KANSAS CITY, MISSOURI

Project Mngr:	TAR	Project No.	02027042
Designed By:	TAR	Scale:	1" = 50'
Checked By:	TAR	Date:	7-16-02
Approved By:	TAR	Drawn By:	BTW
File Name:	FIGURE_5D.DWG	Figure No.	5D

## Appendix C

**APPENDIX C**

Reference Documents

287838 9343-4329

**Terracon****CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST**

13910 West 96th Terrace Lenexa, Kansas 66215 Phone: (913) 492-7777 Fax: (913) 492-7443	Client No. 9451	Site Location: 601-607 Hardesty Kansas City, Missouri	Project Manager: Tracie A. Ragland
---	--------------------	---	---------------------------------------

Project Name <b>Hardesty Federal Complex</b>	Project Number <b>O2027042</b>	Results Attention to <b>Tracie A. Ragland</b>			
Project Name	Project Number	PRESERVATIVE			
		COOL/ICE	H <sub>2</sub> O <sub>2</sub>	H <sub>2</sub> SO <sub>4</sub>	Other:
SAMPLE I.D. Cape-4 Cape-X Cape-6 FB GW-3 FD-GW-3 GW-5	DATE 6/5/2002 6/5/2002 6/5/2002 6/6/2002 6/6/2002 6/6/2002 6/6/2002	TIME 11:38 12:25 12:10 17:50 17:25 17:25 17:40	MATRIX GW GW GW W GW GW GW	ANALYSIS	
				RCRA Metals	
				CONTAINERS	
				NUMBER OF	

Special Requests:

SHIPPING VIA: <b>FedEx Overnight</b>	RELINQUISHED BY <i>Vincent E. Payne</i>	RECEIVED BY <i>C. Gruber</i>	RELINQUISHED BY <i>C. Gruber</i>	RECEIVED BY
Date Needed: 6/14/02	SIGNATURE <i>Vincent E. Payne</i>	SIGNATURE <i>C. Gruber</i>	PRINTED NAME Terracon FIRM	PRINTED NAME FIRM
LABORATORY PRIORITY				
Standard 7 day or sooner 24-Hour _____	72 Hour Other _____	6/16/02 9:00 DATE/TIME	6/16/02 9:00 DATE/TIME	DATE/TIME

PAGE 1 OF 1

# TESTAMERICA, INC.-NASHVILLE

## COOLER RECEIPT FORM

Client: Terracom

Box# 287838

Cooler Received On: 6/7 And Opened On: 6/9 By: Shane Gambill

G 3243 - 93249

Shane Gambill

(Signature)

1. Temperature of Cooler when opened 3.0 Degrees Celsius
2. Were custody seals on outside of cooler? .....  YES  NO  
a. If yes, how many, what kind and where? 1 front
3. Were custody seals on containers and intact? .....  NO  YES
4. Were the seals intact, signed, and dated correctly? .....  YES  NO
5. Were custody papers inside cooler? .....  YES  NO
6. Were custody papers properly filled out (ink, signed, etc)? .....  YES  NO
7. Did you sign the custody papers in the appropriate place? .....  YES  NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)? .....  YES  NO
10. Did all bottles arrive in good condition( unbroken)? .....  YES  NO
11. Were all bottle labels complete (#, date, signed, pres, etc)? .....  YES  NO
12. Did all bottle labels and tags agree with custody papers? .....  YES  NO
13. Were correct bottles used for the analysis requested? .....  YES  NO
14. a. Were VOA trials received? .....  YES  NO  
b. Was there any observable head space present in any VOA vials? .....  NO  YES
15. Was sufficient amount of sample sent in each bottle? .....  YES  NO
16. Were correct preservatives used? .....  YES  NO
17. Was residual chlorine present? .....  YES  NO
18. Corrective action taken, if necessary:

See attached for resolution

# TestAmerica

INCORPORATED

6/10/02

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 02027042 HARDESTY FEDERAL COMPLEX. The Laboratory Project number is 287838. An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Page 1

Sample Identification	Lab Number	Collection Date
CAPE-4	02-A93243	6/ 5/02
CAPE-X	02-A93244	6/ 5/02
CAPE-6	02-A93245	6/ 5/02
FB	02-A93246	6/ 6/02
GW-3	02-A93247	6/ 6/02
FD-GW-3	02-A93248	6/ 6/02
GW-5	02-A93249	6/ 6/02

These results relate only to the items tested.  
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Michael A. Lane

Report Date: 6/10/02

Paul E. Lane, Jr., Lab Director  
Michael H. Dunn, M.S., Technical Director  
Johnny A. Mitchell, Dir. Technical Serv.  
Eric S. Smith, Assistant Technical Director  
Jennifer P. Flynn, Technical Services

Gail A. Lage, Technical Serv.  
Glenn L. Norton, Technical Serv.  
Kelly S. Comstock, Technical Serv.  
Pamela A. Langford, Technical Serv.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

Project: 02027042  
Project Name: HARDESTY FEDERAL COMPLEX  
Sampler:

Lab Number: 02-A93243  
Sample ID: CAPE-4  
Sample Type: Ground water  
Site ID:

Date Collected: 6/ 5/02  
Time Collected: 11:38  
Date Received: 6/ 7/02  
Time Received: 9:00  
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
<b>*METALS*</b>									
Arsenic	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Barium	0.0480	mg/l	0.0100	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Cadmium	ND	mg/l	0.0010	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Chromium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Lead	ND	mg/l	0.0030	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Mercury	ND	mg/l	0.00020	1	6/10/02	11:06	W. Choate	7470A	4268
Selenium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Silver	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

Project: 02027042  
Project Name: HARDESTY FEDERAL COMPLEX  
Sampler:

Lab Number: 02-A93244  
Sample ID: CAPE-X  
Sample Type: Ground water  
Site ID:

Date Collected: 6/ 5/02  
Time Collected: 12:25  
Date Received: 6/ 7/02  
Time Received: 9:00  
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
<b>*METALS*</b>									
Arsenic	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Barium	0.0790	mg/l	0.0100	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Cadmium	ND	mg/l	0.0010	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Chromium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Lead	ND	mg/l	0.0030	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Mercury	ND	mg/l	0.00020	1	6/10/02	11:06	W. Choate	7470A	4268
Selenium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Silver	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

Project: 02027042  
Project Name: HARDESTY FEDERAL COMPLEX  
Sampler:

Lab Number: 02-A93245  
Sample ID: CAPE-6  
Sample Type: Ground water  
Site ID:

Date Collected: 6/ 5/02  
Time Collected: 12:10  
Date Received: 6/ 7/02  
Time Received: 9:00  
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
<b>*METALS*</b>									
Arsenic	0.0340	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Barium	0.751	mg/l	0.0100	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Cadmium	0.0040	mg/l	0.0010	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Chromium	0.0070	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Lead	ND	mg/l	0.0030	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Mercury	ND	mg/l	0.00020	1	6/10/02	11:06	W. Choate	7470A	4268
Selenium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Silver	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834

### LABORATORY COMMENTS:

ND - Not detected at the report limit.

B - Analyte was detected in the method blank.

J - Estimated Value below Report Limit.

# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

Lab Number: 02-A93246  
Sample ID: FB  
Sample Type: Ground water  
Site ID:

Project: 02027042  
Project Name: HARDESTY FEDERAL COMPLEX  
Sampler:

Date Collected: 6/ 6/02  
Time Collected: 17:50  
Date Received: 6/ 7/02  
Time Received: 9:00  
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
<b>*METALS*</b>									
Arsenic	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Barium	ND	mg/l	0.0100	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Cadmium	ND	mg/l	0.0010	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Chromium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Lead	ND	mg/l	0.0030	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Mercury	ND	mg/l	0.00020	1	6/10/02	11:06	W. Choate	7470A	4268
Selenium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Silver	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834

### LABORATORY COMMENTS:

ND - Not detected at the report limit.

B - Analyte was detected in the method blank.

J - Estimated Value below Report Limit.

# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

Project: 02027042  
Project Name: HARDESTY FEDERAL COMPLEX  
Sampler:

Lab Number: 02-A93247  
Sample ID: GW-3  
Sample Type: Ground water  
Site ID:

Date Collected: 6/ 6/02  
Time Collected: 17:25  
Date Received: 6/ 7/02  
Time Received: 9:00  
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
<b>*METALS*</b>									
Arsenic	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Barium	0.315	mg/l	0.0100	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Cadmium	ND	mg/l	0.0010	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Chromium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Lead	ND	mg/l	0.0030	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Mercury	ND	mg/l	0.00020	1	6/10/02	11:06	W. Choate	7470A	4268
Selenium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Silver	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

Lab Number: 02-A93248  
Sample ID: FD-GW-3  
Sample Type: Ground water  
Site ID:

Project: 02027042  
Project Name: HARDESTY FEDERAL COMPLEX  
Sampler:

Date Collected: 6/ 6/02  
Time Collected: 17:25  
Date Received: 6/ 7/02  
Time Received: 9:00  
Page: 1

Analyte	Result	Units	Report Limit	Dil	Analysis		Analyst	Method	Batch
				Factor	Date	Time			
<b>*METALS*</b>									
Arsenic	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Barium	0.317	mg/l	0.0100	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Cadmium	0.0010	mg/l	0.0010	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Chromium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Lead	ND	mg/l	0.0030	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Mercury	ND	mg/l	0.00020	1	6/10/02	11:06	W. Choate	7470A	4268
Selenium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Silver	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

Project: 02027042  
Project Name: HARDESTY FEDERAL COMPLEX  
Sampler:

Lab Number: 02-A93249  
Sample ID: GW-5  
Sample Type: Ground water  
Site ID:

Date Collected: 6/ 6/02  
Time Collected: 17:40  
Date Received: 6/ 7/02  
Time Received: 9:00  
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
*METALS*									
Arsenic	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Barium	0.141	mg/l	0.0100	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Cadmium	0.0010	mg/l	0.0010	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Chromium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Lead	ND	mg/l	0.0030	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Mercury	ND	mg/l	0.00020	1	6/10/02	11:06	W. Choate	7470A	4268
Selenium	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834
Silver	ND	mg/l	0.0050	1	6/ 8/02	20:47	Rob Hunt	6010B	3834

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
 Page: 1

### Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
---------	-------	------------	--------	------------	----------	--------------	------------	--------------

#### \*\*METALS\*\*

Arsenic	mg/l	< 0.0050	0.0530	0.0500	106	80 - 120	3834	02-A93244
Barium	mg/l	0.0790	2.18	2.00	105	80 - 120	3834	02-A93244
Cadmium	mg/l	< 0.0010	0.0500	0.0500	100	80 - 120	3834	02-A93244
Chromium	mg/l	< 0.0050	0.196	0.200	98	80 - 120	3834	02-A93244
Lead	mg/l	< 0.0030	0.0490	0.0500	98	80 - 120	3834	02-A93244
Mercury	mg/l	< 0.00020	0.00076	0.00100	76#	80 - 120	4268	02-A93243
Selenium	mg/l	< 0.0050	0.0550	0.0500	110	80 - 120	3834	02-A93244
Silver	mg/l	< 0.0050	0.0420	0.0500	84	80 - 120	3834	02-A93244

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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#### \*\*METALS\*\*

Arsenic	mg/l	0.0530	0.0500	5.83	20	3834
Barium	mg/l	2.18	2.20	0.91	20	3834
Cadmium	mg/l	0.0500	0.0520	3.92	20	3834
Chromium	mg/l	0.196	0.203	3.51	20	3834
Lead	mg/l	0.0490	0.0500	2.02	20	3834
Mercury	mg/l	0.00076	0.00088	14.63	20	4268
Selenium	mg/l	0.0550	0.0560	1.80	20	3834
Silver	mg/l	0.0420	0.0440	4.65	20	3834

### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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#### \*\*METALS\*\*

Project QC continued . . .

# TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
 Page: 2

#### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Arsenic	mg/l	0.0500	0.0510	102	80 - 120	3834
Barium	mg/l	2.00	2.10	105	80 - 120	3834
Cadmium	mg/l	0.0500	0.0520	104	80 - 120	3834
Chromium	mg/l	0.200	0.201	100	80 - 120	3834
Lead	mg/l	0.0500	0.0490	98	80 - 120	3834
Mercury	mg/l	0.00100	0.00093	93	85 - 115	4268
Selenium	mg/l	0.0500	0.0460	92	80 - 120	3834
Silver	mg/l	0.0500	0.0440	88	80 - 120	3834

#### Continuing Calibration Verification

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

#### \*\*METALS\*\*

#### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed

#### \*\*METALS\*\*

Arsenic	< 0.0036	mg/l	3834	6/ 8/02	20:47
Barium	< 0.0005	mg/l	3834	6/ 8/02	20:47
Cadmium	< 0.0005	mg/l	3834	6/ 8/02	20:47
Chromium	< 0.0007	mg/l	3834	6/ 8/02	20:47
Lead	< 0.0015	mg/l	3834	6/ 8/02	20:47
Mercury	< 0.00012	mg/l	4268	6/10/02	11:06
Selenium	< 0.0034	mg/l	3834	6/ 8/02	20:47
Silver	< 0.0009	mg/l	3834	6/ 8/02	20:47

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: 02027042

Page: 3

# - Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 287838



283-218-03226

Terrencon

**CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST**

13910 West 96th Terrace  
Lenexa, Kansas 66215  
Phone: (913) 492-7777  
Fax: (913) 492-7443

Client No.	9451
Site Location:	601-61
Site Address:	Kansas
Project Manager:	Tracie

lardesty  
ity, Missouri  
Ragland

Is this work being conducted  
for regulatory purposes?  YES  NO

Project Name	Project Number		
Hardesty Federal Complex	O2027042		
Fax Results	Date Needed	Results Attention to	
yes	6/14/02	Tracie A. Ragland	

NUMBER OF  
CONTAINERS  
PRESERVATIVE  
ACID

DATE	TIME	MATRIX	REMARKS
6/5/2002	12:40	GW	
6/5/2002	11:38	GW	
6/5/2002	12:25	GW	
6/5/2002	12:10	GW	
6/5/2002		W	
6/6/2002	17:25	GW	
6/6/2002	17:50	W	
6/6/2002	17:40	GW	
6/6/2002	17:25	GW	
			VOC
			ANAL
			Other
			C
			HNO
			AW/A
			H <sub>2</sub> SC
			COO
			HCl
			NH <sub>3</sub>
			Others

### **Special Requests:**

SHIPPING VIA:		FedEx Overnight		RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Date Needed:	6/14/02	<i>Vincent E. Payne</i>	<i>C. Gandy, Jr.</i>	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
LABORATORY PRIORITY	Standard 7 day or sooner	72 Hour	Other _____	PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME
24-Hour _____	_____	_____	_____	Terracon	Test America	FIRM	FIRM
DATE/TIME		6/6/2002 8pm		6/7/02 9:40		DATE/TIME	
						DATE/TIME	

# TESTAMERICA, INC.-NASHVILLE

## COOLER RECEIPT FORM

Client: Terracon

BC# 287832

Cooler Received On: 6/1 And Opened On: 6/1 By: Shane Gambill

93218 - 93226

Shane Gambill

(Signature)

1. Temperature of Cooler when opened 3.0 Degrees Celsius
2. Were custody seals on outside of cooler? .....  YES  NO  
a. If yes, how many, what kind and where: 1 Front
3. Were custody seals on containers and intact? .....  NO  YES
4. Were the seals intact, signed, and dated correctly? .....  YES  NO
5. Were custody papers inside cooler? .....  YES  NO
6. Were custody papers properly filled out (ink, signed, etc)? .....  YES  NO
7. Did you sign the custody papers in the appropriate place? .....  YES  NO
8. What kind of packing material used? Bubblewrap Peanut Vermiculite Other None
9. Was sufficient ice used (if appropriate)? .....  YES  NO
10. Did all bottles arrive in good condition (unbroken)? .....  YES  NO
11. Were all bottle labels complete (#, date, signed, pres, etc)? .....  YES  NO
12. Did all bottle labels and tags agree with custody papers? .....  YES  NO
13. Were correct bottles used for the analysis requested? .....  YES  NO
14. a. Were VOA vials received? .....  YES  NO  
b. Was there any observable head space present in any VOA vial? .....  NO  YES
15. Was sufficient amount of sample sent in each bottle? .....  YES  NO
16. Were correct preservatives used? .....  YES  NO
17. Was residual chlorine present? .....  NO  YES
18. Corrective action taken, if necessary:

See attached for resolution

# TestAmerica

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6/13/02

TERRACON ENVIRONMENTAL 9451

JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project 02027042 HARDESTY FEDERAL COMPLEX. The Laboratory Project number is 287832. An executed copy of the chain of custody and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
GW-1	02-A93218	6/ 5/02
CAPE-4	02-A93219	6/ 5/02
CAPE-X	02-A93220	6/ 5/02
CAPE-6	02-A93221	6/ 5/02
TB	02-A93222	6/ 5/02
GW-3	02-A93223	6/ 6/02
FB	02-A93224	6/ 6/02
GW-5	02-A93225	6/ 6/02
FD-GW-3	02-A93226	6/ 6/02

These results relate only to the items tested.  
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Eric S. Smith

Paul E. Lane, Jr., Lab Director  
Michael H. Dunn, M.S., Technical Director  
Johnny A. Mitchell, Dir. Technical Serv.  
Eric S. Smith, Assistant Technical Director

Report Date: 6/13/02

Gail A. Lage, Technical Serv.  
Glenn L. Norton, Technical Serv.  
Kelly S. Comstock, Technical Serv.  
Pamela A. Langford, Technical Serv.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A93218  
 Sample ID: GW-1  
 Sample Type: Ground water  
 Site ID:

Date Collected: 6/ 5/02  
 Time Collected: 12:40  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	6/11/02	1:21	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Bromochloromethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	1:21	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
sec-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	1:21	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A93218  
 Sample ID: GW-1  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
cis-1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	1:21	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	1:21	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	1:21	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	1:21	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Tetrachloroethene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,1,2-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Trichloroethene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A93218  
Sample ID: GW-1  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	1:21	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	60. - 158.
VOA Surr Toluene-d8	102.	82. - 127.
VOA Surr, 4-BFB	104.	72. - 136.
VOA Surr, DBFM	100.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A93219  
 Sample ID: CAPE-4  
 Sample Type: Ground water  
 Site ID:

Date Collected: 6/ 5/02  
 Time Collected: 11:38  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	6/11/02	1:49	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Bromochloromethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	1:49	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
sec-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	1:49	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93219  
 Sample ID: CAPE-4  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
cis-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	1:49	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	1:49	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	1:49	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	1:49	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Tetrachloroethene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,1,2-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Trichloroethene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93219  
Sample ID: CAPE-4  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	1:49	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	60. - 158.
VOA Surr Toluene-d8	102.	82. - 127.
VOA Surr, 4-BFB	106.	72. - 136.
VOA Surr, DBFM	99.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A93220  
 Sample ID: CAPE-X  
 Sample Type: Ground water  
 Site ID:

Date Collected: 6/ 5/02  
 Time Collected: 12:25  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	6/11/02	8:17	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Bromochloromethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	8:17	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
sec-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	8:17	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93220  
 Sample ID: CAPE-X  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
cis-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	8:17	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	8:17	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	8:17	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	8:17	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Tetrachloroethene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,1,2-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Trichloroethene	0.0032	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93220  
Sample ID: CAPE-X  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	8:17	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	60. - 158.
VOA Surr Toluene-d8	103.	82. - 127.
VOA Surr, 4-BFB	104.	72. - 136.
VOA Surr, DBFM	101.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Lab Number: 02-A93221  
 Sample ID: CAPE-6  
 Sample Type: Ground water  
 Site ID:

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Date Collected: 6/ 5/02  
 Time Collected: 12:10  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	6/11/02	8:44	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Bromochloromethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	8:44	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
sec-Butylbenzene	0.0067	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	8:44	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2-Dichlorobenzene	0.0045	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93221  
 Sample ID: CAPE-6  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
cis-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	8:44	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	8:44	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	8:44	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	8:44	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Tetrachloroethene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,1,2-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Trichloroethene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93221  
Sample ID: CAPE-6  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil	Analysis		Analyst	Method	Batch
				Factor	Date	Time			
Xylenes (Total)	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	8:44	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	99.	60. - 158.
VOA Surr Toluene-d8	102.	82. - 127.
VOA Surr, 4-BFB	103.	72. - 136.
VOA Surr, DBFM	99.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Lab Number: 02-A93222  
 Sample ID: TB  
 Sample Type: Ground water  
 Site ID:

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Date Collected: 6/ 5/02  
 Time Collected:  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Acetone	ND	mg/l	0.0500	1	6/11/02	9:12	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Bromochloromethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	9:12	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
sec-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	9:12	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93222  
 Sample ID: TB  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
cis-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	9:12	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	9:12	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	9:12	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	9:12	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Tetrachloroethene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,1,2-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Trichloroethene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93222  
Sample ID: TB  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	9:12	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	60. - 158.
VOA Surr Toluene-d8	101.	82. - 127.
VOA Surr, 4-BFB	104.	72. - 136.
VOA Surr, DBFM	99.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A93223  
 Sample ID: GW-3  
 Sample Type: Ground water  
 Site ID:

Date Collected: 6/ 6/02  
 Time Collected: 17:25  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit	Factor	Date	Time			
<b>*VOLATILE ORGANICS*</b>									
Acetone	ND	mg/l	0.0500	1	6/11/02	9:40	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Bromochloromethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	9:40	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
sec-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	9:40	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93223  
 Sample ID: GW-3  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
cis-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	9:40	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	9:40	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	9:40	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	9:40	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	0.0211	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Tetrachloroethene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,1,2-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Trichloroethene	0.0799	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A93223  
Sample ID: GW-3  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	9:40	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	100.	60. - 158.
VOA Surr Toluene-d8	102.	82. - 127.
VOA Surr, 4-BFB	104.	72. - 136.
VOA Surr, DBFM	99.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A93224  
 Sample ID: FB  
 Sample Type: Ground water  
 Site ID:

Date Collected: 6/ 6/02  
 Time Collected: 17:50  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	6/11/02	13:52	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	13:52	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
sec-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	13:52	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93224  
 Sample ID: FB  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
cis-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	13:52	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	13:52	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	13:52	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	13:52	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Tetrachloroethene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,1,2-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Trichloroethene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93224  
Sample ID: FB  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xlenes (Total)	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	13:52	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	101.	60. - 158.
VOA Surr Toluene-d8	101.	82. - 127.
VOA Surr, 4-BFB	107.	72. - 136.
VOA Surr, DBFM	98.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A93225  
 Sample ID: GW-5  
 Sample Type: Ground water  
 Site ID:

Date Collected: 6/ 6/02  
 Time Collected: 17:40  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	6/11/02	14:20	M. Taylor	8260B	6267
Benzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Bromobenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Bromochloromethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Bromoform	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Bromomethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
2-Butanone	ND	mg/l	0.0500	1	6/11/02	14:20	M. Taylor	8260B	6267
n-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
sec-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
t-Butylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Carbon disulfide	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Carbon tetrachloride	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Chlorobenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Chloroethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Chloroform	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Chloromethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
2-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
4-Chlorotoluene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/11/02	14:20	M. Taylor	8260B	6267
Dibromochloromethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2-Dibromomethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Dibromomethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A93225  
 Sample ID: GW-5  
 Project: 02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2-Dichloroethane	0.0028	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
cis-1,2-Dichloroethene	0.0273	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
trans-1,2-Dichloroethene	0.0023	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Ethylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
2-Hexanone	ND	mg/l	0.0100	1	6/11/02	14:20	M. Taylor	8260B	6267
Isopropylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/11/02	14:20	M. Taylor	8260B	6267
Methylene chloride	ND	mg/l	0.0050	1	6/11/02	14:20	M. Taylor	8260B	6267
Naphthalene	ND	mg/l	0.0050	1	6/11/02	14:20	M. Taylor	8260B	6267
n-Propylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Styrene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,1,2,2-Tetrachloroethane	0.269	mg/l	0.0200	10	6/12/02	12:13	M. Taylor	8260B	4715
Tetrachloroethene	0.0196	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Toluene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,1,2-Trichloroethane	0.0112	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Trichloroethene	2.07	mg/l	0.200	100	6/12/02	12:41	M. Taylor	8260B	8300
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Vinyl chloride	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A93225  
Sample ID: GW-5  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Bromodichloromethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/11/02	14:20	M. Taylor	8260B	6267

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	104.	60. - 158.
VOA Surr Toluene-d8	103.	82. - 127.
VOA Surr, 4-BFB	106.	72. - 136.
VOA Surr, DBFM	103.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Lab Number: 02-A93226  
 Sample ID: FD-GW-3  
 Sample Type: Ground water  
 Site ID:

Project: 02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Date Collected: 6/ 6/02  
 Time Collected: 17:25  
 Date Received: 6/ 7/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil	Analysis		Analyst	Method	Batch
				Factor	Date	Time			
<b>*VOLATILE ORGANICS*</b>									
Acetone	ND	mg/l	0.0500	1	6/12/02	10:49	M. Taylor	8260B	4715
Benzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Bromobenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Bromochloromethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Bromoform	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Bromomethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
2-Butanone	ND	mg/l	0.0500	1	6/12/02	10:49	M. Taylor	8260B	4715
n-Butylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
sec-Butylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
t-Butylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Carbon disulfide	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Carbon tetrachloride	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Chlorobenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Chloroethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Chloroform	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Chloromethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
2-Chlorotoluene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
4-Chlorotoluene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	6/12/02	10:49	M. Taylor	8260B	4715
Dibromochloromethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2-Dibromoethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Dibromomethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2-Dichlorobenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,3-Dichlorobenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A93226

Sample ID: FD-GW-3

Project: 02027042

Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Dichlorodifluoromethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,1-Dichloroethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2-Dichloroethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,1-Dichloroethene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
cis-1,2-Dichloroethene	0.0072	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
trans-1,2-Dichloroethene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2-Dichloropropane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,3-Dichloropropane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
2,2-Dichloropropane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,1-Dichloropropene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
cis-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
trans-1,3-Dichloropropene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Ethylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Hexachlorobutadiene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
2-Hexanone	ND	mg/l	0.0100	1	6/12/02	10:49	M. Taylor	8260B	4715
Isopropylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
4-Isopropyltoluene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	6/12/02	10:49	M. Taylor	8260B	4715
Methylene chloride	ND	mg/l	0.0050	1	6/12/02	10:49	M. Taylor	8260B	4715
Naphthalene	ND	mg/l	0.0050	1	6/12/02	10:49	M. Taylor	8260B	4715
n-Propylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Styrene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,1,1,2-Tetrachloroethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,1,2,2-Tetrachloroethane	0.166	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Tetrachloroethene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Toluene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2,3-Trichlorobenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2,4-Trichlorobenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,1,1-Trichloroethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,1,2-Trichloroethane	0.0084	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Trichloroethene	0.239	mg/l	0.0200	10	6/12/02	17:16	M. Taylor	8260B	8300
1,2,3-Trichloropropane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,2,4-Trimethylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
1,3,5-Trimethylbenzene	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Vinyl chloride	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A93226  
Sample ID: FD-GW-3  
Project: 02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Bromodichloromethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715
Trichlorofluoromethane	ND	mg/l	0.0020	1	6/12/02	10:49	M. Taylor	8260B	4715

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	99.	60. - 158.
VOA Surr Toluene-d8	101.	82. - 127.
VOA Surr, 4-BFB	108.	72. - 136.
VOA Surr, DBFM	98.	81. - 137.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
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### Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
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#### \*\*VOA PARAMETERS\*\*

Benzene	mg/l	< 0.0007	0.0489	0.0500	98	70. - 136.	6267	blank
Benzene	mg/l	< 0.0007	0.0476	0.0500	95	70. - 136.	4715	blank
Chlorobenzene	mg/l	< 0.0007	0.0493	0.0500	99	70. - 132.	6267	blank
Chlorobenzene	mg/l	< 0.0007	0.0472	0.0500	94	70. - 132.	4715	blank
1,1-Dichloroethene	mg/l	< 0.0008	0.0464	0.0500	93	60. - 145.	6267	blank
1,1-Dichloroethene	mg/l	< 0.0008	0.0442	0.0500	88	60. - 145.	4715	blank
Toluene	mg/l	< 0.0007	0.0491	0.0500	98	69. - 137.	6267	blank
Toluene	mg/l	< 0.0007	0.0468	0.0500	94	69. - 137.	4715	blank
Trichloroethene	mg/l	< 0.0009	0.0479	0.0500	96	63. - 149.	6267	blank
Tetrachloroethene	mg/l	< 0.0008	0.0487	0.0500	97	60. - 140.	6267	blank
Tetrachloroethene	mg/l	< 0.0008	0.0458	0.0500	92	60. - 140.	4715	blank
VOA Surr 1,2-DCA-d4	% Rec				97	60. - 158.	6267	
VOA Surr Toluene-d8	% Rec				103	82. - 127.	6267	
VOA Surr, 4-BFB	% Rec				98	72. - 136.	6267	
VOA Surr, DBFM	% Rec				98	81. - 137.	6267	

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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#### \*\*VOA PARAMETERS\*\*

Benzene	mg/l	0.0489	0.0502	2.62	21.	6267
Benzene	mg/l	0.0476	0.0483	1.46	21.	4715
Chlorobenzene	mg/l	0.0493	0.0496	0.61	25.	6267
Chlorobenzene	mg/l	0.0472	0.0476	0.84	25.	4715
1,1-Dichloroethene	mg/l	0.0464	0.0478	2.97	26.	6267
1,1-Dichloroethene	mg/l	0.0442	0.0458	3.56	26.	4715
Toluene	mg/l	0.0491	0.0500	1.82	22.	6267

Project QC continued . . .

# TestAmerica

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PROJECT QUALITY CONTROL DATA  
 project Number: 02027042  
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Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Toluene	mg/l	0.0468	0.0479	2.32	22.	4715
Trichloroethene	mg/l	0.0479	0.0494	3.08	28.	6267
Tetrachloroethene	mg/l	0.0487	0.0490	0.61	24.	6267
Tetrachloroethene	mg/l	0.0458	0.0471	2.80	24.	4715
VOA Surr 1,2-DCA-d4	% Rec		97.			6267
VOA Surr Toluene-d8	% Rec		102.			6267
VOA Surr, 4-BFB	% Rec		97.			6267
VOA Surr, DBFM	% Rec		100.			6267

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Acetone	mg/l	0.250	0.271	108	54 - 153	6267

\*\*VOA PARAMETERS\*\*

Acetone	mg/l	0.250	0.259	104	54 - 153	4715
Acetone	mg/l	0.250	0.279	112	54 - 153	4715
Benzene	mg/l	0.0500	0.0495	99	79 - 124	6267
Benzene	mg/l	0.0500	0.0486	97	79 - 124	4715
Benzene	mg/l	0.0500	0.0516	103	79 - 124	4715
Bromobenzene	mg/l	0.0500	0.0511	102	76 - 122	6267
Bromobenzene	mg/l	0.0500	0.0460	92	76 - 122	4715
Bromobenzene	mg/l	0.0500	0.0517	103	76 - 122	4715
Bromoform	mg/l	0.0500	0.0495	99	71 - 134	6267
Bromoform	mg/l	0.0500	0.0478	96	71 - 134	4715
Bromoform	mg/l	0.0500	0.0516	103	71 - 134	4715
Bromoform	mg/l	0.0500	0.0455	91	66 - 124	6267
Bromoform	mg/l	0.0500	0.0460	92	66 - 124	4715
Bromoform	mg/l	0.0500	0.0510	102	66 - 124	4715
Bromomethane	mg/l	0.0500	0.0489	98	51 - 145	6267
Bromomethane	mg/l	0.0500	0.0522	104	51 - 145	4715
Bromomethane	mg/l	0.0500	0.0484	97	51 - 145	4715

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: 02027042

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### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2-Butanone	mg/l	0.250	0.277	111	62 - 134	6267
2-Butanone	mg/l	0.250	0.261	104	62 - 134	4715
2-Butanone	mg/l	0.250	0.275	110	62 - 134	4715
n-Butylbenzene	mg/l	0.0500	0.0492	98	61 - 136	6267
n-Butylbenzene	mg/l	0.0500	0.0457	91	61 - 136	4715
n-Butylbenzene	mg/l	0.0500	0.0484	97	61 - 136	4715
sec-Butylbenzene	mg/l	0.0500	0.0499	100	69 - 130	6267
sec-Butylbenzene	mg/l	0.0500	0.0457	91	69 - 130	4715
sec-Butylbenzene	mg/l	0.0500	0.0514	103	69 - 130	4715
t-Butylbenzene	mg/l	0.0500	0.0484	97	66 - 129	6267
t-Butylbenzene	mg/l	0.0500	0.0444	89	66 - 129	4715
t-Butylbenzene	mg/l	0.0500	0.0510	102	66 - 129	4715
Carbon disulfide	mg/l	0.0500	0.0450	90	71 - 129	6267
Carbon disulfide	mg/l	0.0500	0.0473	95	71 - 129	4715
Carbon disulfide	mg/l	0.0500	0.0488	98	71 - 129	4715
Carbon tetrachloride	mg/l	0.0500	0.0525	105	70 - 130	6267
Carbon tetrachloride	mg/l	0.0500	0.0543	109	70 - 130	4715
Carbon tetrachloride	mg/l	0.0500	0.0595	119	70 - 130	4715
Chlorobenzene	mg/l	0.0500	0.0490	98	80 - 118	6267
Chlorobenzene	mg/l	0.0500	0.0475	95	80 - 118	4715
Chlorobenzene	mg/l	0.0500	0.0506	101	80 - 118	4715
Chloroethane	mg/l	0.0500	0.0376	75	59 - 144	6267
Chloroethane	mg/l	0.0500	0.0450	90	59 - 144	4715
Chloroethane	mg/l	0.0500	0.0471	94	59 - 144	4715
Chloroform	mg/l	0.0500	0.0479	96	74 - 123	6267
Chloroform	mg/l	0.0500	0.0467	93	74 - 123	4715
Chloroform	mg/l	0.0500	0.0497	99	74 - 123	4715
Chloromethane	mg/l	0.0500	0.0370	74	47 - 155	6267
Chloromethane	mg/l	0.0500	0.0476	95	47 - 155	4715
Chloromethane	mg/l	0.0500	0.0468	94	47 - 155	4715
2-Chlorotoluene	mg/l	0.0500	0.0488	98	74 - 126	6267
2-Chlorotoluene	mg/l	0.0500	0.0445	89	74 - 126	4715
2-Chlorotoluene	mg/l	0.0500	0.0498	100	74 - 126	4715

Project QC continued . . .

# TestAmerica

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PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
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## Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
4-Chlorotoluene	mg/l	0.0500	0.0492	98	75 - 125	6267
4-Chlorotoluene	mg/l	0.0500	0.0452	90	75 - 125	4715
4-Chlorotoluene	mg/l	0.0500	0.0505	101	75 - 125	4715
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0640	128	58 - 133	6267
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0590	118	58 - 133	4715
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0730	146 #	58 - 133	4715
Dibromochloromethane	mg/l	0.0500	0.0539	108	73 - 125	6267
Dibromochloromethane	mg/l	0.0500	0.0523	105	73 - 125	4715
Dibromochloromethane	mg/l	0.0500	0.0579	116	73 - 125	4715
1,2-Dibromoethane	mg/l	0.0500	0.0546	109	74 - 125	6267
1,2-Dibromoethane	mg/l	0.0500	0.0513	103	74 - 125	4715
1,2-Dibromoethane	mg/l	0.0500	0.0552	110	74 - 125	4715
Dibromomethane	mg/l	0.0500	0.0522	104	71 - 130	6267
Dibromomethane	mg/l	0.0500	0.0500	100	71 - 130	4715
Dibromomethane	mg/l	0.0500	0.0528	106	71 - 130	4715
1,2-Dichlorobenzene	mg/l	0.0500	0.0501	100	76 - 122	6267
1,2-Dichlorobenzene	mg/l	0.0500	0.0448	90	76 - 122	4715
1,2-Dichlorobenzene	mg/l	0.0500	0.0508	102	76 - 122	4715
1,3-Dichlorobenzene	mg/l	0.0500	0.0497	99	75 - 122	6267
1,3-Dichlorobenzene	mg/l	0.0500	0.0448	90	75 - 122	4715
1,3-Dichlorobenzene	mg/l	0.0500	0.0513	103	75 - 122	4715
1,4-Dichlorobenzene	mg/l	0.0500	0.0484	97	76 - 119	6267
1,4-Dichlorobenzene	mg/l	0.0500	0.0441	88	76 - 119	4715
1,4-Dichlorobenzene	mg/l	0.0500	0.0500	100	76 - 119	4715
Dichlorodifluoromethane	mg/l	0.0500	0.0370	74	53 - 151	6267
Dichlorodifluoromethane	mg/l	0.0500	0.0469	94	53 - 151	4715
Dichlorodifluoromethane	mg/l	0.0500	0.0491	98	53 - 151	4715
1,1-Dichloroethane	mg/l	0.0500	0.0481	96	76 - 127	6267
1,1-Dichloroethane	mg/l	0.0500	0.0475	95	76 - 127	4715
1,1-Dichloroethane	mg/l	0.0500	0.0507	101	76 - 127	4715
1,2-Dichloroethane	mg/l	0.0500	0.0508	102	66 - 133	6267
1,2-Dichloroethane	mg/l	0.0500	0.0487	97	66 - 133	4715
1,2-Dichloroethane	mg/l	0.0500	0.0504	101	66 - 133	4715

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: 02027042

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### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1-Dichloroethene	mg/l	0.0500	0.0474	95	72 - 127	6267
1,1-Dichloroethene	mg/l	0.0500	0.0471	94	72 - 127	4715
1,1-Dichloroethene	mg/l	0.0500	0.0498	100	72 - 127	4715
cis-1,2-Dichloroethene	mg/l	0.0500	0.0488	98	74 - 127	6267
cis-1,2-Dichloroethene	mg/l	0.0500	0.0486	97	74 - 127	4715
cis-1,2-Dichloroethene	mg/l	0.0500	0.0494	99	74 - 127	4715
trans-1,2-Dichloroethene	mg/l	0.0500	0.0470	94	70 - 132	6267
trans-1,2-Dichloroethene	mg/l	0.0500	0.0479	96	70 - 132	4715
trans-1,2-Dichloroethene	mg/l	0.0500	0.0490	98	70 - 132	4715
1,2-Dichloropropane	mg/l	0.0500	0.0514	103	76 - 124	6267
1,2-Dichloropropane	mg/l	0.0500	0.0491	98	76 - 124	4715
1,2-Dichloropropane	mg/l	0.0500	0.0518	104	76 - 124	4715
1,3-Dichloropropane	mg/l	0.0500	0.0528	106	72 - 129	6267
1,3-Dichloropropane	mg/l	0.0500	0.0505	101	72 - 129	4715
1,3-Dichloropropane	mg/l	0.0500	0.0531	106	72 - 129	4715
2,2-Dichloropropane	mg/l	0.0500	0.0490	98	33 - 152	6267
2,2-Dichloropropane	mg/l	0.0500	0.0547	109	33 - 152	4715
2,2-Dichloropropane	mg/l	0.0500	0.0375	75	33 - 152	4715
1,1-Dichloropropene	mg/l	0.0500	0.0489	98	73 - 127	6267
1,1-Dichloropropene	mg/l	0.0500	0.0492	98	73 - 127	4715
1,1-Dichloropropene	mg/l	0.0500	0.0516	103	73 - 127	4715
cis-1,3-Dichloropropene	mg/l	0.0500	0.0528	106	58 - 131	6267
cis-1,3-Dichloropropene	mg/l	0.0500	0.0524	105	58 - 131	4715
cis-1,3-Dichloropropene	mg/l	0.0500	0.0520	104	58 - 131	4715
trans-1,3-Dichloropropene	mg/l	0.0500	0.0489	98	53 - 133	6267
trans-1,3-Dichloropropene	mg/l	0.0500	0.0483	97	53 - 133	4715
trans-1,3-Dichloropropene	mg/l	0.0500	0.0478	96	53 - 133	4715
Ethylbenzene	mg/l	0.0500	0.0496	99	77 - 126	6267
Ethylbenzene	mg/l	0.0500	0.0490	98	77 - 126	4715
Ethylbenzene	mg/l	0.0500	0.0517	103	77 - 126	4715
Hexachlorobutadiene	mg/l	0.0500	0.0458	92	52 - 139	6267
Hexachlorobutadiene	mg/l	0.0500	0.0422	84	52 - 139	4715
Hexachlorobutadiene	mg/l	0.0500	0.0450	90	52 - 139	4715

Project QC continued . . .

# TestAmerica

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PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
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## Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
2-Hexanone	mg/l	0.250	0.286	114	61 - 136	6267
2-Hexanone	mg/l	0.250	0.278	111	61 - 136	4715
2-Hexanone	mg/l	0.250	0.292	117	61 - 136	4715
Isopropylbenzene	mg/l	0.0500	0.0497	99	74 - 127	6267
Isopropylbenzene	mg/l	0.0500	0.0453	91	74 - 127	4715
Isopropylbenzene	mg/l	0.0500	0.0518	104	74 - 127	4715
4-Isopropyltoluene	mg/l	0.0500	0.0489	98	69 - 113	6267
4-Isopropyltoluene	mg/l	0.0500	0.0448	90	69 - 113	4715
4-Isopropyltoluene	mg/l	0.0500	0.0505	101	69 - 113	4715
4-Methyl-2-pentanone	mg/l	0.250	0.286	114	63 - 135	6267
4-Methyl-2-pentanone	mg/l	0.250	0.273	109	63 - 135	4715
4-Methyl-2-pentanone	mg/l	0.250	0.289	116	63 - 135	4715
Methylene chloride	mg/l	0.0500	0.0498	100	70 - 130	6267
Methylene chloride	mg/l	0.0500	0.0469	94	70 - 130	4715
Methylene chloride	mg/l	0.0500	0.0490	98	70 - 130	4715
Naphthalene	mg/l	0.0500	0.0502	100	57 - 143	6267
Naphthalene	mg/l	0.0500	0.0424	85	57 - 143	4715
Naphthalene	mg/l	0.0500	0.0523	105	57 - 143	4715
n-Propylbenzene	mg/l	0.0500	0.0491	98	71 - 130	6267
n-Propylbenzene	mg/l	0.0500	0.0453	91	71 - 130	4715
n-Propylbenzene	mg/l	0.0500	0.0505	101	71 - 130	4715
Styrene	mg/l	0.0500	0.0534	107	77 - 122	6267
Styrene	mg/l	0.0500	0.0513	103	77 - 122	4715
Styrene	mg/l	0.0500	0.0544	109	77 - 122	4715
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0532	106	71 - 130	6267
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0526	105	71 - 130	4715
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0562	112	71 - 130	4715
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0539	108	57 - 136	6267
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0524	105	57 - 136	4715
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0527	105	57 - 136	4715
Tetrachloroethene	mg/l	0.0500	0.0486	97	72 - 126	6267
Tetrachloroethene	mg/l	0.0500	0.0484	97	72 - 126	4715
Tetrachloroethene	mg/l	0.0500	0.0510	102	72 - 126	4715

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: 02027042

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### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Toluene	mg/l	0.0500	0.0493	99	78 - 124	6267
Toluene	mg/l	0.0500	0.0485	97	78 - 124	4715
Toluene	mg/l	0.0500	0.0511	102	78 - 124	4715
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0530	106	58 - 139	6267
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0431	86	58 - 139	4715
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0544	109	58 - 139	4715
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0624	125	60 - 132	6267
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0547	109	60 - 132	4715
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0625	125	60 - 132	4715
1,1,1-Trichloroethane	mg/l	0.0500	0.0477	95	70 - 130	6267
1,1,1-Trichloroethane	mg/l	0.0500	0.0484	97	70 - 130	4715
1,1,1-Trichloroethane	mg/l	0.0500	0.0527	105	70 - 130	4715
1,1,2-Trichloroethane	mg/l	0.0500	0.0528	106	75 - 124	6267
1,1,2-Trichloroethane	mg/l	0.0500	0.0502	100	75 - 124	4715
1,1,2-Trichloroethane	mg/l	0.0500	0.0522	104	75 - 124	4715
Trichloroethylene	mg/l	0.0500	0.0480	96	70 - 136	6267
Trichloroethylene	mg/l	0.0500	0.0521	104	70 - 136	8300
1,2,3-Trichloropropane	mg/l	0.0500	0.0549	110	63 - 132	6267
1,2,3-Trichloropropane	mg/l	0.0500	0.0536	107	63 - 132	4715
1,2,3-Trichloropropane	mg/l	0.0500	0.0546	109	63 - 132	4715
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0498	100	73 - 127	6267
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0450	90	73 - 127	4715
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0508	102	73 - 127	4715
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0502	100	72 - 128	6267
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0460	92	72 - 128	4715
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0514	103	72 - 128	4715
Vinyl chloride	mg/l	0.0500	0.0380	76	62 - 144	6267
Vinyl chloride	mg/l	0.0500	0.0473	95	62 - 144	4715
Vinyl chloride	mg/l	0.0500	0.0493	99	62 - 144	4715
Xylenes (Total)	mg/l	0.150	0.152	101	76 - 127	6267
Xylenes (Total)	mg/l	0.150	0.148	99	76 - 127	4715
Xylenes (Total)	mg/l	0.150	0.156	104	76 - 127	4715
Bromodichloromethane	mg/l	0.0500	0.0506	101	69 - 130	6267

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
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### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromodichloromethane	mg/l	0.0500	0.0492	98	69 - 130	4715
Bromodichloromethane	mg/l	0.0500	0.0522	104	69 - 130	4715
Trichlorofluoromethane	mg/l	0.0500	0.0394	79	64 - 136	6267
Trichlorofluoromethane	mg/l	0.0500	0.0488	98	64 - 136	4715
Trichlorofluoromethane	mg/l	0.0500	0.0514	103	64 - 136	4715
VOA Surr 1,2-DCA-d4	% Rec			97	60 - 158	6267
VOA Surr 1,2-DCA-d4	% Rec			96	60 - 158	8300
VOA Surr Toluene-d8	% Rec			102	82 - 127	6267
VOA Surr Toluene-d8	% Rec			100	82 - 127	8300
VOA Surr, 4-BFB	% Rec			97	72 - 136	6267
VOA Surr, 4-BFB	% Rec			97	72 - 136	8300
VOA Surr, DBFM	% Rec			100	81 - 137	6267
VOA Surr, DBFM	% Rec			100	81 - 137	8300

### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
<b>**VOA PARAMETERS**</b>					
Acetone	< 0.0084	mg/l	4715	6/11/02	13:24
Acetone	< 0.0084	mg/l	6267	6/11/02	0:54
Acetone	< 0.0084	mg/l	4715	6/12/02	10:09
Benzene	< 0.0007	mg/l	4715	6/11/02	13:24
Benzene	< 0.0007	mg/l	6267	6/11/02	0:54
Benzene	< 0.0007	mg/l	4715	6/12/02	10:09
Bromobenzene	< 0.0007	mg/l	4715	6/11/02	13:24
Bromobenzene	< 0.0007	mg/l	6267	6/11/02	0:54
Bromobenzene	< 0.0007	mg/l	4715	6/12/02	10:09
Bromoform	< 0.0006	mg/l	4715	6/11/02	13:24
Bromoform	< 0.0006	mg/l	6267	6/11/02	0:54
Bromoform	< 0.0006	mg/l	4715	6/12/02	10:09
Bromoform	< 0.0007	mg/l	4715	6/11/02	13:24

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: 02027042

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### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Bromoform	< 0.0007	mg/l	6267	6/11/02	0:54
Bromoform	< 0.0007	mg/l	4715	6/12/02	10:09
Bromomethane	< 0.0008	mg/l	4715	6/11/02	13:24
Bromomethane	< 0.0008	mg/l	6267	6/11/02	0:54
Bromomethane	< 0.0008	mg/l	4715	6/12/02	10:09
2-Butanone	< 0.0039	mg/l	4715	6/11/02	13:24
2-Butanone	< 0.0039	mg/l	6267	6/11/02	0:54
2-Butanone	< 0.0039	mg/l	4715	6/12/02	10:09
n-Butylbenzene	< 0.0007	mg/l	4715	6/11/02	13:24
n-Butylbenzene	< 0.0007	mg/l	6267	6/11/02	0:54
n-Butylbenzene	< 0.0007	mg/l	4715	6/12/02	10:09
sec-Butylbenzene	< 0.0008	mg/l	4715	6/11/02	13:24
sec-Butylbenzene	< 0.0008	mg/l	6267	6/11/02	0:54
sec-Butylbenzene	< 0.0008	mg/l	4715	6/12/02	10:09
t-Butylbenzene	< 0.0009	mg/l	4715	6/11/02	13:24
t-Butylbenzene	< 0.0009	mg/l	6267	6/11/02	0:54
t-Butylbenzene	< 0.0009	mg/l	4715	6/12/02	10:09
Carbon disulfide	< 0.0008	mg/l	4715	6/11/02	13:24
Carbon disulfide	< 0.0008	mg/l	6267	6/11/02	0:54
Carbon disulfide	< 0.0008	mg/l	4715	6/12/02	10:09
Carbon tetrachloride	< 0.0007	mg/l	4715	6/11/02	13:24
Carbon tetrachloride	< 0.0007	mg/l	6267	6/11/02	0:54
Carbon tetrachloride	< 0.0007	mg/l	4715	6/12/02	10:09
Chlorobenzene	< 0.0007	mg/l	4715	6/11/02	13:24
Chlorobenzene	< 0.0007	mg/l	6267	6/11/02	0:54
Chlorobenzene	< 0.0007	mg/l	4715	6/12/02	10:09
Chloroethane	< 0.0009	mg/l	4715	6/11/02	13:24
Chloroethane	< 0.0009	mg/l	6267	6/11/02	0:54
Chloroethane	< 0.0009	mg/l	4715	6/12/02	10:09
Chloroform	< 0.0006	mg/l	4715	6/11/02	13:24
Chloroform	< 0.0006	mg/l	6267	6/11/02	0:54
Chloroform	< 0.0006	mg/l	4715	6/12/02	10:09
Chloromethane	< 0.0005	mg/l	4715	6/11/02	13:24

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: 02027042

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### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chloromethane	< 0.0005	mg/l	6267	6/11/02	0:54
Chloromethane	< 0.0005	mg/l	4715	6/12/02	10:09
2-Chlorotoluene	< 0.0007	mg/l	4715	6/11/02	13:24
2-Chlorotoluene	< 0.0007	mg/l	6267	6/11/02	0:54
2-Chlorotoluene	< 0.0007	mg/l	4715	6/12/02	10:09
4-Chlorotoluene	< 0.0006	mg/l	4715	6/11/02	13:24
4-Chlorotoluene	< 0.0006	mg/l	6267	6/11/02	0:54
4-Chlorotoluene	< 0.0006	mg/l	4715	6/12/02	10:09
1,2-Dibromo-3-chloropropane	< 0.0031	mg/l	4715	6/11/02	13:24
1,2-Dibromo-3-chloropropane	< 0.0031	mg/l	6267	6/11/02	0:54
1,2-Dibromo-3-chloropropane	< 0.0031	mg/l	4715	6/12/02	10:09
Dibromochloromethane	< 0.0004	mg/l	4715	6/11/02	13:24
Dibromochloromethane	< 0.0004	mg/l	6267	6/11/02	0:54
Dibromochloromethane	< 0.0004	mg/l	4715	6/12/02	10:09
1,2-Dibromoethane	< 0.0005	mg/l	4715	6/11/02	13:24
1,2-Dibromoethane	< 0.0005	mg/l	6267	6/11/02	0:54
1,2-Dibromoethane	< 0.0005	mg/l	4715	6/12/02	10:09
Dibromomethane	< 0.0004	mg/l	4715	6/11/02	13:24
Dibromomethane	< 0.0004	mg/l	6267	6/11/02	0:54
Dibromomethane	< 0.0004	mg/l	4715	6/12/02	10:09
1,2-Dichlorobenzene	< 0.0005	mg/l	4715	6/11/02	13:24
1,2-Dichlorobenzene	< 0.0005	mg/l	6267	6/11/02	0:54
1,2-Dichlorobenzene	< 0.0005	mg/l	4715	6/12/02	10:09
1,3-Dichlorobenzene	< 0.0006	mg/l	4715	6/11/02	13:24
1,3-Dichlorobenzene	< 0.0006	mg/l	6267	6/11/02	0:54
1,3-Dichlorobenzene	< 0.0006	mg/l	4715	6/12/02	10:09
1,4-Dichlorobenzene	< 0.0005	mg/l	4715	6/11/02	13:24
1,4-Dichlorobenzene	< 0.0005	mg/l	6267	6/11/02	0:54
1,4-Dichlorobenzene	< 0.0005	mg/l	4715	6/12/02	10:09
Dichlorodifluoromethane	< 0.0004	mg/l	4715	6/11/02	13:24
Dichlorodifluoromethane	< 0.0004	mg/l	6267	6/11/02	0:54
Dichlorodifluoromethane	< 0.0004	mg/l	4715	6/12/02	10:09
1,1-Dichloroethane	< 0.0008	mg/l	4715	6/11/02	13:24

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: 02027042

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### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1-Dichloroethane	< 0.0008	mg/l	6267	6/11/02	0:54
1,1-Dichloroethane	< 0.0008	mg/l	4715	6/12/02	10:09
1,2-Dichloroethane	< 0.0009	mg/l	4715	6/11/02	13:24
1,2-Dichloroethane	< 0.0009	mg/l	6267	6/11/02	0:54
1,2-Dichloroethane	< 0.0009	mg/l	4715	6/12/02	10:09
1,1-Dichloroethene	< 0.0008	mg/l	4715	6/11/02	13:24
1,1-Dichloroethene	< 0.0008	mg/l	6267	6/11/02	0:54
1,1-Dichloroethene	< 0.0008	mg/l	4715	6/12/02	10:09
cis-1,2-Dichloroethene	< 0.0007	mg/l	4715	6/11/02	13:24
cis-1,2-Dichloroethene	< 0.0007	mg/l	6267	6/11/02	0:54
cis-1,2-Dichloroethene	< 0.0007	mg/l	4715	6/12/02	10:09
trans-1,2-Dichloroethene	< 0.0008	mg/l	4715	6/11/02	13:24
trans-1,2-Dichloroethene	< 0.0008	mg/l	6267	6/11/02	0:54
trans-1,2-Dichloroethene	< 0.0008	mg/l	4715	6/12/02	10:09
1,2-Dichloropropane	< 0.0006	mg/l	4715	6/11/02	13:24
1,2-Dichloropropane	< 0.0006	mg/l	6267	6/11/02	0:54
1,2-Dichloropropane	< 0.0006	mg/l	4715	6/12/02	10:09
1,3-Dichloropropane	< 0.0006	mg/l	4715	6/11/02	13:24
1,3-Dichloropropane	< 0.0006	mg/l	6267	6/11/02	0:54
1,3-Dichloropropane	< 0.0006	mg/l	4715	6/12/02	10:09
2,2-Dichloropropane	< 0.0009	mg/l	4715	6/11/02	13:24
2,2-Dichloropropane	< 0.0009	mg/l	6267	6/11/02	0:54
2,2-Dichloropropane	< 0.0009	mg/l	4715	6/12/02	10:09
1,1-Dichloropropene	< 0.0007	mg/l	4715	6/11/02	13:24
1,1-Dichloropropene	< 0.0007	mg/l	6267	6/11/02	0:54
1,1-Dichloropropene	< 0.0007	mg/l	4715	6/12/02	10:09
cis-1,3-Dichloropropene	< 0.0007	mg/l	4715	6/11/02	13:24
cis-1,3-Dichloropropene	< 0.0007	mg/l	6267	6/11/02	0:54
cis-1,3-Dichloropropene	< 0.0007	mg/l	4715	6/12/02	10:09
trans-1,3-Dichloropropene	< 0.0005	mg/l	4715	6/11/02	13:24
trans-1,3-Dichloropropene	< 0.0005	mg/l	6267	6/11/02	0:54
trans-1,3-Dichloropropene	< 0.0005	mg/l	4715	6/12/02	10:09
Ethylbenzene	< 0.0007	mg/l	4715	6/11/02	13:24

Project QC continued . . .

# TestAmerica

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PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
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## Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Ethylbenzene	< 0.0007	mg/l	6267	6/11/02	0:54
Ethylbenzene	< 0.0007	mg/l	4715	6/12/02	10:09
Hexachlorobutadiene	< 0.0008	mg/l	4715	6/11/02	13:24
Hexachlorobutadiene	< 0.0008	mg/l	6267	6/11/02	0:54
Hexachlorobutadiene	< 0.0008	mg/l	4715	6/12/02	10:09
2-Hexanone	< 0.0028	mg/l	4715	6/11/02	13:24
2-Hexanone	< 0.0028	mg/l	6267	6/11/02	0:54
2-Hexanone	< 0.0028	mg/l	4715	6/12/02	10:09
Isopropylbenzene	< 0.0008	mg/l	4715	6/11/02	13:24
Isopropylbenzene	< 0.0008	mg/l	6267	6/11/02	0:54
Isopropylbenzene	< 0.0008	mg/l	4715	6/12/02	10:09
4-Isopropyltoluene	< 0.0008	mg/l	4715	6/11/02	13:24
4-Isopropyltoluene	< 0.0008	mg/l	6267	6/11/02	0:54
4-Isopropyltoluene	< 0.0008	mg/l	4715	6/12/02	10:09
4-Methyl-2-pentanone	< 0.0046	mg/l	4715	6/11/02	13:24
4-Methyl-2-pentanone	< 0.0046	mg/l	6267	6/11/02	0:54
4-Methyl-2-pentanone	< 0.0046	mg/l	4715	6/12/02	10:09
Methylene chloride	< 0.0015	mg/l	4715	6/11/02	13:24
Methylene chloride	< 0.0015	mg/l	6267	6/11/02	0:54
Methylene chloride	< 0.0015	mg/l	4715	6/12/02	10:09
Naphthalene	< 0.0019	mg/l	4715	6/11/02	13:24
Naphthalene	< 0.0019	mg/l	6267	6/11/02	0:54
Naphthalene	< 0.0019	mg/l	4715	6/12/02	10:09
n-Propylbenzene	< 0.0008	mg/l	4715	6/11/02	13:24
n-Propylbenzene	< 0.0008	mg/l	6267	6/11/02	0:54
n-Propylbenzene	< 0.0008	mg/l	4715	6/12/02	10:09
Styrene	< 0.0009	mg/l	4715	6/11/02	13:24
Styrene	< 0.0009	mg/l	6267	6/11/02	0:54
Styrene	< 0.0009	mg/l	4715	6/12/02	10:09
1,1,1,2-Tetrachloroethane	< 0.0006	mg/l	4715	6/11/02	13:24
1,1,1,2-Tetrachloroethane	< 0.0006	mg/l	6267	6/11/02	0:54
1,1,1,2-Tetrachloroethane	< 0.0006	mg/l	4715	6/12/02	10:09
1,1,2,2-Tetrachloroethane	< 0.0005	mg/l	4715	6/11/02	13:24

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA  
 Project Number: 02027042  
 Page: 13

## Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
1,1,2,2-Tetrachloroethane	< 0.0005	mg/l	6267	6/11/02	0:54
1,1,2,2-Tetrachloroethane	< 0.0005	mg/l	4715	6/12/02	10:09
Tetrachloroethene	< 0.0008	mg/l	4715	6/11/02	13:24
Tetrachloroethene	< 0.0008	mg/l	6267	6/11/02	0:54
Tetrachloroethene	< 0.0008	mg/l	4715	6/12/02	10:09
Toluene	< 0.0007	mg/l	4715	6/11/02	13:24
Toluene	< 0.0007	mg/l	6267	6/11/02	0:54
Toluene	< 0.0007	mg/l	4715	6/12/02	10:09
1,2,3-Trichlorobenzene	< 0.0006	mg/l	4715	6/11/02	13:24
1,2,3-Trichlorobenzene	< 0.0006	mg/l	6267	6/11/02	0:54
1,2,3-Trichlorobenzene	< 0.0006	mg/l	4715	6/12/02	10:09
1,2,4-Trichlorobenzene	< 0.0009	mg/l	4715	6/11/02	13:24
1,2,4-Trichlorobenzene	< 0.0009	mg/l	6267	6/11/02	0:54
1,2,4-Trichlorobenzene	< 0.0009	mg/l	4715	6/12/02	10:09
1,1,1-Trichloroethane	< 0.0007	mg/l	4715	6/11/02	13:24
1,1,1-Trichloroethane	< 0.0007	mg/l	6267	6/11/02	0:54
1,1,1-Trichloroethane	< 0.0007	mg/l	4715	6/12/02	10:09
1,1,2-Trichloroethane	< 0.0005	mg/l	4715	6/11/02	13:24
1,1,2-Trichloroethane	< 0.0005	mg/l	6267	6/11/02	0:54
Trichloroethene	< 0.0009	mg/l	6267	6/11/02	0:54
Trichloroethene	< 0.0009	mg/l	8300	6/12/02	10:09
1,2,3-Trichloropropane	< 0.0004	mg/l	4715	6/11/02	13:24
1,2,3-Trichloropropane	< 0.0004	mg/l	6267	6/11/02	0:54
1,2,3-Trichloropropane	< 0.0004	mg/l	4715	6/12/02	10:09
1,2,4-Trimethylbenzene	< 0.0006	mg/l	4715	6/11/02	13:24
1,2,4-Trimethylbenzene	< 0.0006	mg/l	6267	6/11/02	0:54
1,2,4-Trimethylbenzene	< 0.0006	mg/l	4715	6/12/02	10:09
1,3,5-Trimethylbenzene	< 0.0008	mg/l	4715	6/11/02	13:24
1,3,5-Trimethylbenzene	< 0.0008	mg/l	6267	6/11/02	0:54
1,3,5-Trimethylbenzene	< 0.0008	mg/l	4715	6/12/02	10:09
Vinyl chloride	< 0.0005	mg/l	4715	6/11/02	13:24
Vinyl chloride	< 0.0005	mg/l	6267	6/11/02	0:54

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA  
Project Number: 02027042  
Page: 14

## Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Vinyl chloride	< 0.0005	mg/l	4715	6/12/02	10:09
Xylenes (Total)	< 0.0009	mg/l	4715	6/11/02	13:24
Xylenes (Total)	< 0.0009	mg/l	6267	6/11/02	0:54
Xylenes (Total)	< 0.0009	mg/l	4715	6/12/02	10:09
Bromodichloromethane	< 0.0008	mg/l	4715	6/11/02	13:24
Bromodichloromethane	< 0.0008	mg/l	6267	6/11/02	0:54
Bromodichloromethane	< 0.0008	mg/l	4715	6/12/02	10:09
Trichlorofluoromethane	< 0.0007	mg/l	4715	6/11/02	13:24
Trichlorofluoromethane	< 0.0007	mg/l	6267	6/11/02	0:54
Trichlorofluoromethane	< 0.0007	mg/l	4715	6/12/02	10:09
VOA Surr 1,2-DCA-d4	99.	% Rec	6267	6/11/02	0:54
VOA Surr 1,2-DCA-d4	98.	% Rec	8300	6/12/02	10:09
VOA Surr Toluene-d8	101.	% Rec	6267	6/11/02	0:54
VOA Surr Toluene-d8	101.	% Rec	8300	6/12/02	10:09
VOA Surr, 4-BFB	109.	% Rec	6267	6/11/02	0:54
VOA Surr, 4-BFB	106.	% Rec	8300	6/12/02	10:09
VOA Surr, DBFM	100.	% Rec	6267	6/11/02	0:54
VOA Surr, DBFM	100.	% Rec	8300	6/12/02	10:09

# - Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 287832



291440

Terracon

Commercial Bequests:

**CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST**

# TESTAMERICA, INC.-NASHVILLE

## COOLER RECEIPT FORM

Client: Terracan BC# 291447

Cooler Received On: 7/2/02 And Opened On: 7/2/02 By: James Jacobs

J. Jacobs

(Signature)

1. Temperature of Cooler when opened 2 Degrees Celsius
2. Were custody seals on outside of cooler?.....  YES...NO

  - a. If yes, how many, what kind and where: 1 Tape Front

3. Were custody seals on containers and intact?.....  NO...YES
4. Were the seals intact, signed, and dated correctly?.....  YES...NO
5. Were custody papers inside cooler?.....  YES...NO
6. Were custody papers properly filled out (ink,signed,etc)?.....  YES...NO
7. Did you sign the custody papers in the appropriate place?.....  YES...NO
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....  YES...NO
10. Did all bottles arrive in good condition( unbroken)?.....  YES...NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....  YES...NO
12. Did all bottle labels and tags agree with custody papers?.....  YES...NO
13. Were correct bottles used for the analysis requested?.....  YES...NO
14. a. Were VOA vials received?.....  YES...NO  
b. Was there any observable head space present in any VOA vial?.....  NO...YES
15. Was sufficient amount of sample sent in each bottle?.....  YES...NO
16. Were correct preservatives used?.....  YES...NO
17. Was residual chlorine present?.....  NO...YES
18. Corrective action taken, if necessary:

See attached for resolution

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7/ 8/02

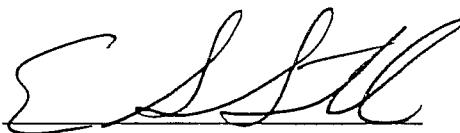
TERRACON ENVIRONMENTAL 9451  
JASON POULSEN  
13910 W. 96 TERRACE  
LENEXA, KS 66215

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project #02027042 HARDESTY FEDERAL COMPLEX. The Laboratory Project number is 291447. An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

Sample Identification	Lab Number	Collection Date
GW-1	02-A108966	7/ 1/02
GW-4	02-A108967	7/ 1/02
GW-8	02-A108968	7/ 1/02
GW-9	02-A108969	7/ 1/02
FD, GW-9	02-A108970	7/ 1/02
FB	02-A108971	7/ 1/02
TB	02-A108972	7/ 1/02

These results relate only to the items tested.  
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By:



Report Date: 7/ 8/02

Paul E. Lane, Jr., Lab Director  
Michael H. Dunn, M.S., Technical Director  
Johnny A. Mitchell, Dir. Technical Serv.  
Eric S. Smith, Assistant Technical Director

Gail A. Lage, Technical Serv.  
Glenn L. Norton, Technical Serv.  
Kelly S. Comstock, Technical Serv.  
Pamela A. Langford, Technical Serv.

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Lab Number: 02-A108966  
 Sample ID: GW-1  
 Sample Type: Ground water  
 Site ID:

Project: #02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Date Collected: 7/ 1/02  
 Time Collected: 12:06  
 Date Received: 7/ 2/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
<b>*VOLATILE ORGANICS*</b>									
Acetone	ND	mg/l	0.0500	1	7/ 6/02	18:08	J.Haley	8260B	7347
Benzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Bromobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Bromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Bromoform	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Bromomethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
2-Butanone	ND	mg/l	0.0500	1	7/ 6/02	18:08	J.Haley	8260B	7347
n-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
sec-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
t-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Carbon disulfide	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Carbon tetrachloride	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Chlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Chloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Chloroform	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Chloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
2-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
4-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Dibromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2-Dibromoethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Dibromomethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A108966  
 Sample ID: GW-1  
 Project: #02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Dichlorodifluoromethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,1-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,1-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,3-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
2,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,1-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Ethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Hexachlorobutadiene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
2-Hexanone	ND	mg/l	0.0100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Isopropylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
4-Isopropyltoluene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Methylene chloride	ND	mg/l	0.00500	1	7/ 6/02	18:08	J.Haley	8260B	7347
Naphthalene	ND	mg/l	0.00500	1	7/ 6/02	18:08	J.Haley	8260B	7347
n-Propylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Styrene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Tetrachloroethene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Toluene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Trichloroethene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,2,4-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Vinyl chloride	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A108966  
Sample ID: GW-1  
Project: #02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Bromodichloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347
Trichlorofluoromethane	ND	mg/l	0.00100	1	7/ 6/02	18:08	J.Haley	8260B	7347

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	89.	56. - 155.
VOA Surr Toluene-d8	87.	79. - 130.
VOA Surr, 4-BFB	96.	62. - 155.
VOA Surr, DBFM	89.	74. - 127.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: #02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A108967  
 Sample ID: GW-4  
 Sample Type: Ground water  
 Site ID:

Date Collected: 7/ 1/02  
 Time Collected: 11:45  
 Date Received: 7/ 2/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	7/ 6/02	18:36	J.Haley	8260B	7347
Benzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Bromobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Bromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Bromoform	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Bromomethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
2-Butanone	ND	mg/l	0.0500	1	7/ 6/02	18:36	J.Haley	8260B	7347
n-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
sec-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
t-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Carbon disulfide	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Carbon tetrachloride	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Chlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Chloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Chloroform	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Chloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
2-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
4-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Dibromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2-Dibromoethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Dibromomethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108967  
 Sample ID: GW-4  
 Project: #02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Dichlorodifluoromethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,1-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,1-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
cis-1,2-Dichloroethene	0.0390	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
trans-1,2-Dichloroethene	0.00560	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,3-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
2,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,1-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Ethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Hexachlorobutadiene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
2-Hexanone	ND	mg/l	0.0100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Isopropylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
4-Isopropyltoluene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Methylene chloride	ND	mg/l	0.00500	1	7/ 6/02	18:36	J.Haley	8260B	7347
Naphthalene	ND	mg/l	0.00500	1	7/ 6/02	18:36	J.Haley	8260B	7347
n-Propylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Styrene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,1,2,2-Tetrachloroethane	0.124	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Tetrachloroethene	0.00570	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Toluene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,1,2-Trichloroethane	0.00750	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Trichloroethene	0.812	mg/l	0.0100	10	7/ 7/02	19:28	J.Haley	8260B	7353
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,2,4-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Vinyl chloride	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347

Sample report continued . . .

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## ANALYTICAL REPORT

Laboratory Number: 02-A108967  
Sample ID: GW-4  
Project: #02027042  
Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit	Factor	Date	Time			
Xylenes (Total)	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Bromodichloromethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347
Trichlorofluoromethane	ND	mg/l	0.00100	1	7/ 6/02	18:36	J.Haley	8260B	7347

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	96.	56. - 155.
VOA Surr Toluene-d8	94.	79. - 130.
VOA Surr, 4-BFB	95.	62. - 155.
VOA Surr, DBFM	98.	74. - 127.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: #02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A108968  
 Sample ID: GW-8  
 Sample Type: Ground water  
 Site ID:

Date Collected: 7/ 1/02  
 Time Collected: 12:15  
 Date Received: 7/ 2/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
<b>*VOLATILE ORGANICS*</b>									
Acetone	ND	mg/l	0.0500	1	7/ 7/02	18:06	J.Haley	8260B	7353
Benzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Bromobenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Bromochloromethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Bromoform	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Bromomethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
2-Butanone	ND	mg/l	0.0500	1	7/ 7/02	18:06	J.Haley	8260B	7353
n-Butylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
sec-Butylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
t-Butylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Carbon disulfide	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Carbon tetrachloride	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Chlorobenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Chloroethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Chloroform	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Chloromethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
2-Chlorotoluene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
4-Chlorotoluene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Dibromochloromethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2-Dibromoethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Dibromomethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108968  
 Sample ID: GW-8  
 Project: #02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Dichlorodifluoromethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,1-Dichloroethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2-Dichloroethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,1-Dichloroethene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,3-Dichloropropane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
2,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,1-Dichloropropene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Ethylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Hexachlorobutadiene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
2-Hexanone	ND	mg/l	0.0100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Isopropylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
4-Isopropyltoluene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Methylene chloride	ND	mg/l	0.00500	1	7/ 7/02	18:06	J.Haley	8260B	7353
Naphthalene	ND	mg/l	0.00500	1	7/ 7/02	18:06	J.Haley	8260B	7353
n-Propylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Styrene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Tetrachloroethene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Toluene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Trichloroethene	0.00110	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,2,4-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Vinyl chloride	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108968  
Sample ID: GW-8  
Project: #02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil	Analysis		Analyst	Method	Batch
				Factor	Date	Time			
Xylenes (Total)	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Bromodichloromethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353
Trichlorofluoromethane	ND	mg/l	0.00100	1	7/ 7/02	18:06	J.Haley	8260B	7353

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	93.	56. - 155.
VOA Surr Toluene-d8	91.	79. - 130.
VOA Surr, 4-BFB	95.	62. - 155.
VOA Surr, DBFM	95.	74. - 127.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: #02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A108969  
 Sample ID: GW-9  
 Sample Type: Ground water  
 Site ID:

Date Collected: 7/ 1/02  
 Time Collected: 11:30  
 Date Received: 7/ 2/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	7/ 6/02	19:30	J.Haley	8260B	7347
Benzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Bromobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Bromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Bromoform	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Bromomethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
2-Butanone	ND	mg/l	0.0500	1	7/ 6/02	19:30	J.Haley	8260B	7347
n-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
sec-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
t-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Carbon disulfide	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Carbon tetrachloride	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Chlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Chloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Chloroform	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Chloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
2-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
4-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Dibromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2-Dibromoethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Dibromomethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108969  
 Sample ID: GW-9  
 Project: #02027042  
 Page 2

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit	Factor	Date	Time			
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Dichlorodifluoromethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,1-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,1-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,3-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
2,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,1-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Ethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Hexachlorobutadiene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
2-Hexanone	ND	mg/l	0.0100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Isopropylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
4-Isopropyltoluene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Methylene chloride	ND	mg/l	0.00500	1	7/ 6/02	19:30	J.Haley	8260B	7347
Naphthalene	ND	mg/l	0.00500	1	7/ 6/02	19:30	J.Haley	8260B	7347
n-Propylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Styrene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,1,2,2-Tetrachloroethane	0.00100	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Tetrachloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Toluene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Trichloroethene	0.0191	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,2,4-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Vinyl chloride	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347

Sample report continued . . .

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## ANALYTICAL REPORT

Laboratory Number: 02-A108969  
Sample ID: GW-9  
Project: #02027042  
Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analyst	Method	Batch
			Limit	Factor	Date	Time			
Xylenes (Total)	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Bromodichloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347
Trichlorofluoromethane	ND	mg/l	0.00100	1	7/ 6/02	19:30	J.Haley	8260B	7347

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	94.	56. - 155.
VOA Surr Toluene-d8	93.	79. - 130.
VOA Surr, 4-BFB	96.	62. - 155.
VOA Surr, DBFM	97.	74. - 127.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: #02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A108970  
 Sample ID: FD.GW-9  
 Sample Type: Ground water  
 Site ID:

Date Collected: 7/ 1/02  
 Time Collected: 11:30  
 Date Received: 7/ 2/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	7/ 6/02	19:58	J.Haley	8260B	7347
Benzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Bromobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Bromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Bromoform	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Bromomethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
2-Butanone	ND	mg/l	0.0500	1	7/ 6/02	19:58	J.Haley	8260B	7347
n-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
sec-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
t-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Carbon disulfide	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Carbon tetrachloride	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Chlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Chloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Chloroform	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Chloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
2-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
4-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Dibromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2-Dibromoethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Dibromomethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108970  
 Sample ID: FD, GW-9  
 Project: #02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis		Analyst	Method	Batch
					Date	Time			
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Dichlorodifluoromethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,1-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,1-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,3-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
2,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,1-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Ethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Hexachlorobutadiene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
2-Hexanone	ND	mg/l	0.0100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Isopropylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
4-Isopropyltoluene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Methylene chloride	ND	mg/l	0.00500	1	7/ 6/02	19:58	J.Haley	8260B	7347
Naphthalene	ND	mg/l	0.00500	1	7/ 6/02	19:58	J.Haley	8260B	7347
n-Propylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Styrene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,1,2,2-Tetrachloroethane	0.00110	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Tetrachloroethene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Toluene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Trichloroethene	0.0188	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,2,4-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Vinyl chloride	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347

Sample report continued . . .

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## ANALYTICAL REPORT

Laboratory Number: 02-A108970  
Sample ID: FD, GW-9  
Project: #02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Bromodichloromethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347
Trichlorofluoromethane	ND	mg/l	0.00100	1	7/ 6/02	19:58	J.Haley	8260B	7347

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	92.	56. - 155.
VOA Surr Toluene-d8	92.	79. - 130.
VOA Surr, 4-BFB	97.	62. - 155.
VOA Surr, DBFM	95.	74. - 127.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: #02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A108971  
 Sample ID: FB  
 Sample Type: Ground water  
 Site ID:

Date Collected: 7/ 1/02  
 Time Collected:  
 Date Received: 7/ 2/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil	Analysis		Analyst	Method	Batch
				Factor	Date	Time			
<b>*VOLATILE ORGANICS*</b>									
Acetone	ND	mg/l	0.0500	1	7/ 6/02	16:18	J.Haley	8260B	7347
Benzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Bromobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Bromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Bromoform	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Bromomethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
2-Butanone	ND	mg/l	0.0500	1	7/ 6/02	16:18	J.Haley	8260B	7347
n-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
sec-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
t-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Carbon disulfide	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Carbon tetrachloride	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Chlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Chloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Chloroform	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Chloromethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
2-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
4-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Dibromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2-Dibromoethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Dibromomethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108971  
 Sample ID: FB  
 Project: #02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Dichlorodifluoromethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,1-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,1-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,3-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
2,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,1-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Ethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Hexachlorobutadiene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
2-Hexanone	ND	mg/l	0.0100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Isopropylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
4-Isopropyltoluene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Methylene chloride	ND	mg/l	0.00500	1	7/ 6/02	16:18	J.Haley	8260B	7347
Naphthalene	ND	mg/l	0.00500	1	7/ 6/02	16:18	J.Haley	8260B	7347
n-Propylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Styrene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Tetrachloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Toluene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Trichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,2,4-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Vinyl chloride	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347

Sample report continued . . .

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## ANALYTICAL REPORT

Laboratory Number: 02-A108971  
Sample ID: FB  
Project: #02027042  
Page 3

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Bromodichloromethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347
Trichlorofluoromethane	ND	mg/l	0.00100	1	7/ 6/02	16:18	J.Haley	8260B	7347

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	90.	56. - 155.
VOA Surr Toluene-d8	88.	79. - 130.
VOA Surr, 4-BFB	98.	62. - 155.
VOA Surr, DBFM	90.	74. - 127.

### LABORATORY COMMENTS:

ND - Not detected at the report limit.

B - Analyte was detected in the method blank.

J - Estimated Value below Report Limit.

E - Estimated Value above the calibration limit of the instrument.

# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

TERRACON ENVIRONMENTAL 9451  
 JASON POULSEN  
 13910 W. 96 TERRACE  
 LENEXA, KS 66215

Project: #02027042  
 Project Name: HARDESTY FEDERAL COMPLEX  
 Sampler:

Lab Number: 02-A108972  
 Sample ID: TB  
 Sample Type: Ground water  
 Site ID:

Date Collected: 7/ 1/02  
 Time Collected:  
 Date Received: 7/ 2/02  
 Time Received: 9:00  
 Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
<hr/>									
*VOLATILE ORGANICS*									
Acetone	ND	mg/l	0.0500	1	7/ 6/02	16:46	J.Haley	8260B	7347
Benzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Bromobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Bromoform	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Bromomethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
2-Butanone	ND	mg/l	0.0500	1	7/ 6/02	16:46	J.Haley	8260B	7347
n-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
sec-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
t-Butylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Carbon disulfide	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Carbon tetrachloride	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Chlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Chloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Chloroform	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Chloromethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
2-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
4-Chlorotoluene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2-Dibromo-3-chloropropane	ND	mg/l	0.0100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Dibromochloromethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2-Dibromoethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Dibromomethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,3-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108972  
 Sample ID: TB  
 Project: #02027042  
 Page 2

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
1,4-Dichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Dichlorodifluoromethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,1-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2-Dichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,1-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
cis-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
trans-1,2-Dichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,3-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
2,2-Dichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,1-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
cis-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
trans-1,3-Dichloropropene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Ethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Hexachlorobutadiene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
2-Hexanone	ND	mg/l	0.0100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Isopropylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
4-Isopropyltoluene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
4-Methyl-2-pentanone	ND	mg/l	0.0100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Methylene chloride	ND	mg/l	0.00500	1	7/ 6/02	16:46	J.Haley	8260B	7347
Naphthalene	ND	mg/l	0.00500	1	7/ 6/02	16:46	J.Haley	8260B	7347
n-Propylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Styrene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,1,1,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,1,2,2-Tetrachloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Tetrachloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Toluene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2,3-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2,4-Trichlorobenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,1,1-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,1,2-Trichloroethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Trichloroethene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2,3-Trichloropropane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,2,4-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
1,3,5-Trimethylbenzene	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Vinyl chloride	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A108972  
Sample ID: TB  
Project: #02027042  
Page 3

Analyte	Result	Units	Report	Dil	Analysis		Analysis		
			Limit	Factor	Date	Time	Analyst	Method	Batch
Xylenes (Total)	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Bromodichloromethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347
Trichlorofluoromethane	ND	mg/l	0.00100	1	7/ 6/02	16:46	J.Haley	8260B	7347

Surrogate	% Recovery	Target Range
VOA Surr 1,2-DCA-d4	95.	56. - 155.
VOA Surr Toluene-d8	94.	79. - 130.
VOA Surr, 4-BFB	99.	62. - 155.
VOA Surr, DBFM	97.	74. - 127.

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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PROJECT QUALITY CONTROL DATA  
 Project Number: #02027042  
 Page: 1

### Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
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#### \*\*VOA PARAMETERS\*\*

Benzene	mg/l	< 0.00050	0.0468	0.0500	94	78. - 132.	7347	blank
Benzene	mg/l	< 0.00050	0.0457	0.0500	91	78. - 132.	7353	blank
Chlorobenzene	mg/l	< 0.00020	0.0478	0.0500	96	79. - 124.	7347	blank
Chlorobenzene	mg/l	< 0.00020	0.0483	0.0500	97	79. - 124.	7353	blank
1,1-Dichloroethene	mg/l	< 0.00060	0.0464	0.0500	93	68. - 141.	7347	blank
1,1-Dichloroethene	mg/l	< 0.00060	0.0446	0.0500	89	68. - 141.	7353	blank
Toluene	mg/l	< 0.00060	0.0479	0.0500	96	77. - 134.	7347	blank
Toluene	mg/l	< 0.00060	0.0464	0.0500	93	77. - 134.	7353	blank
Trichloroethene	mg/l	< 0.00040	0.0486	0.0500	97	73. - 137.	7347	blank
Trichloroethene	mg/l	< 0.00040	0.0448	0.0500	90	73. - 137.	7353	blank
Tetrachloroethene	mg/l	< 0.00040	0.0479	0.0500	96	72. - 136.	7347	blank
Tetrachloroethene	mg/l	< 0.00040	0.0465	0.0500	93	72. - 136.	7353	blank
VOA Surr 1,2-DCA-d4	% Rec				94	56. - 155.	7347	
VOA Surr 1,2-DCA-d4	% Rec				93	56. - 155.	7353	
VOA Surr Toluene-d8	% Rec				100	79. - 130.	7347	
VOA Surr Toluene-d8	% Rec				100	79. - 130.	7353	
VOA Surr, 4-BFB	% Rec				98	62. - 155.	7347	
VOA Surr, 4-BFB	% Rec				96	62. - 155.	7353	
VOA Surr, DBFM	% Rec				96	74. - 127.	7347	
VOA Surr, DBFM	% Rec				96	74. - 127.	7353	

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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#### \*\*VOA PARAMETERS\*\*

Benzene	mg/l	0.0468	0.0439	6.39	15.	7347
Benzene	mg/l	0.0457	0.0460	0.65	15.	7353

Project QC continued . . .

# TestAmerica

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## PROJECT QUALITY CONTROL DATA

Project Number: #02027042

Page: 2

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Chlorobenzene	mg/l	0.0478	0.0488	2.07	16.	7347
Chlorobenzene	mg/l	0.0483	0.0482	0.21	16.	7353
1,1-Dichloroethene	mg/l	0.0464	0.0446	3.96	19.	7347
1,1-Dichloroethene	mg/l	0.0446	0.0452	1.34	19.	7353
Toluene	mg/l	0.0479	0.0451	6.02	16.	7347
Toluene	mg/l	0.0464	0.0468	0.86	16.	7353
Trichloroethene	mg/l	0.0486	0.0461	5.28	20.	7347
Trichloroethene	mg/l	0.0448	0.0456	1.77	20.	7353
Tetrachloroethene	mg/l	0.0479	0.0494	3.08	23.	7347
Tetrachloroethene	mg/l	0.0465	0.0472	1.49	23.	7353
VOA Surr 1,2-DCA-d4	% Rec		88.			7347
VOA Surr 1,2-DCA-d4	% Rec		93.			7353
VOA Surr Toluene-d8	% Rec		92.			7347
VOA Surr Toluene-d8	% Rec		99.			7353
VOA Surr, 4-BFB	% Rec		97.			7347
VOA Surr, 4-BFB	% Rec		96.			7353
VOA Surr, DBFM	% Rec		89.			7347
VOA Surr, DBFM	% Rec		95.			7353

### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
<b>**VOA PARAMETERS**</b>						
Acetone	mg/l	0.250	0.241	96	60 - 154	7347
Acetone	mg/l	0.250	0.207	83	60 - 154	7353
Benzene	mg/l	0.0500	0.0504	101	78 - 127	7347
Benzene	mg/l	0.0500	0.0460	92	78 - 127	7353
Bromobenzene	mg/l	0.0500	0.0494	99	80 - 120	7347
Bromobenzene	mg/l	0.0500	0.0486	97	80 - 120	7353
Bromoform	mg/l	0.0500	0.0493	99	66 - 137	7347
Bromoform	mg/l	0.0500	0.0457	91	66 - 137	7353

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA  
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Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromoform	mg/l	0.0500	0.0536	107	66 - 129	7347
Bromoform	mg/l	0.0500	0.0520	104	66 - 129	7353
Bromomethane	mg/l	0.0500	0.0541	108	47 - 163	7347
Bromomethane	mg/l	0.0500	0.0498	100	47 - 163	7353
2-Butanone	mg/l	0.250	0.234	94	75 - 140	7347
2-Butanone	mg/l	0.250	0.210	84	75 - 140	7353
n-Butylbenzene	mg/l	0.0500	0.0530	106	61 - 131	7347
n-Butylbenzene	mg/l	0.0500	0.0522	104	61 - 131	7353
sec-Butylbenzene	mg/l	0.0500	0.0544	109	72 - 124	7347
sec-Butylbenzene	mg/l	0.0500	0.0518	104	72 - 124	7353
t-Butylbenzene	mg/l	0.0500	0.0532	106	74 - 123	7347
t-Butylbenzene	mg/l	0.0500	0.0502	100	74 - 123	7353
Carbon disulfide	mg/l	0.0500	0.0539	108	67 - 138	7347
Carbon disulfide	mg/l	0.0500	0.0487	97	67 - 138	7353
Carbon tetrachloride	mg/l	0.0500	0.0518	104	69 - 132	7347
Carbon tetrachloride	mg/l	0.0500	0.0448	90	69 - 132	7353
Chlorobenzene	mg/l	0.0500	0.0504	101	81 - 120	7347
Chlorobenzene	mg/l	0.0500	0.0496	99	81 - 120	7353
Chloroethane	mg/l	0.0500	0.0517	103	65 - 134	7347
Chloroethane	mg/l	0.0500	0.0449	90	65 - 134	7353
Chloroform	mg/l	0.0500	0.0502	100	77 - 125	7347
Chloroform	mg/l	0.0500	0.0457	91	77 - 125	7353
Chloromethane	mg/l	0.0500	0.0467	93	43 - 142	7347
Chloromethane	mg/l	0.0500	0.0409	82	43 - 142	7353
2-Chlorotoluene	mg/l	0.0500	0.0512	102	76 - 126	7347
2-Chlorotoluene	mg/l	0.0500	0.0501	100	76 - 126	7353
4-Chlorotoluene	mg/l	0.0500	0.0520	104	79 - 123	7347
4-Chlorotoluene	mg/l	0.0500	0.0508	102	79 - 123	7353
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0446	89	64 - 132	7347
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0407	81	64 - 132	7353
Dibromochloromethane	mg/l	0.0500	0.0527	105	78 - 124	7347
Dibromochloromethane	mg/l	0.0500	0.0519	104	78 - 124	7353
1,2-Dibromoethane	mg/l	0.0500	0.0493	99	79 - 126	7347

Project QC continued . . .

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CT QUALITY CONTROL DATA  
ct Number: #02027042

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## Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
,2-Dibromoethane	mg/l	0.0500	0.0484	97	79 - 126	7353
ibromomethane	mg/l	0.0500	0.0494	99	75 - 131	7347
ibromomethane	mg/l	0.0500	0.0469	94	75 - 131	7353
,2-Dichlorobenzene	mg/l	0.0500	0.0493	99	80 - 120	7347
,2-Dichlorobenzene	mg/l	0.0500	0.0495	99	80 - 120	7353
,3-Dichlorobenzene	mg/l	0.0500	0.0506	101	79 - 120	7347
,3-Dichlorobenzene	mg/l	0.0500	0.0495	99	79 - 120	7353
,4-Dichlorobenzene	mg/l	0.0500	0.0491	98	78 - 118	7347
,4-Dichlorobenzene	mg/l	0.0500	0.0493	99	78 - 118	7353
Dichlorodifluoromethane	mg/l	0.0500	0.0558	112	45 - 149	7347
Chlorodifluoromethane	mg/l	0.0500	0.0472	94	45 - 149	7353
,1-Dichloroethane	mg/l	0.0500	0.0508	102	73 - 128	7347
,1-Dichloroethane	mg/l	0.0500	0.0454	91	73 - 128	7353
,2-Dichloroethane	mg/l	0.0500	0.0486	97	71 - 135	7347
,2-Dichloroethane	mg/l	0.0500	0.0453	91	71 - 135	7353
,1-Dichloroethene	mg/l	0.0500	0.0523	105	72 - 128	7347
,1-Dichloroethene	mg/l	0.0500	0.0460	92	72 - 128	7353
cis-1,2-Dichloroethene	mg/l	0.0500	0.0510	102	76 - 127	7347
cis-1,2-Dichloroethene	mg/l	0.0500	0.0463	93	76 - 127	7353
trans-1,2-Dichloroethene	mg/l	0.0500	0.0509	102	71 - 131	7347
trans-1,2-Dichloroethene	mg/l	0.0500	0.0456	91	71 - 131	7353
,2-Dichloropropane	mg/l	0.0500	0.0495	99	75 - 127	7347
1,2-Dichloropropane	mg/l	0.0500	0.0455	91	75 - 127	7353
,3-Dichloropropane	mg/l	0.0500	0.0504	101	81 - 128	7347
,3-Dichloropropane	mg/l	0.0500	0.0473	95	81 - 128	7353
,2,2-Dichloropropane	mg/l	0.0500	0.0500	100	45 - 145	7347
,2,2-Dichloropropane	mg/l	0.0500	0.0446	89	45 - 145	7353
,1-Dichloropropene	mg/l	0.0500	0.0508	102	76 - 127	7347
,1,1-Dichloropropene	mg/l	0.0500	0.0445	89	76 - 127	7353
cis-1,3-Dichloropropene	mg/l	0.0500	0.0486	97	72 - 131	7347
cis-1,3-Dichloropropene	mg/l	0.0500	0.0447	89	72 - 131	7353
trans-1,3-Dichloropropene	mg/l	0.0500	0.0491	98	69 - 131	7347
trans-1,3-Dichloropropene	mg/l	0.0500	0.0450	90	69 - 131	7353

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## PROJECT QUALITY CONTROL DATA

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### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Ethylbenzene	mg/l	0.0500	0.0535	107	78 - 125	7347
Ethylbenzene	mg/l	0.0500	0.0513	103	78 - 125	7353
Hexachlorobutadiene	mg/l	0.0500	0.0475	95	59 - 126	7347
Hexachlorobutadiene	mg/l	0.0500	0.0449	90	59 - 126	7353
2-Hexanone	mg/l	0.250	0.256	102	71 - 142	7347
2-Hexanone	mg/l	0.250	0.227	91	71 - 142	7353
Isopropylbenzene	mg/l	0.0500	0.0532	106	78 - 123	7347
Isopropylbenzene	mg/l	0.0500	0.0501	100	78 - 123	7353
4-Isopropyltoluene	mg/l	0.0500	0.0532	106	73 - 125	7347
4-Isopropyltoluene	mg/l	0.0500	0.0513	103	73 - 125	7353
4-Methyl-2-pentanone	mg/l	0.250	0.250	100	71 - 141	7347
4-Methyl-2-pentanone	mg/l	0.250	0.228	91	71 - 141	7353
Methylene chloride	mg/l	0.0500	0.0529	106	70 - 140	7347
Methylene chloride	mg/l	0.0500	0.0485	97	70 - 140	7353
Naphthalene	mg/l	0.0500	0.0493	99	52 - 140	7347
Naphthalene	mg/l	0.0500	0.0465	93	52 - 140	7353
n-Propylbenzene	mg/l	0.0500	0.0544	109	75 - 125	7347
n-Propylbenzene	mg/l	0.0500	0.0522	104	75 - 125	7353
Styrene	mg/l	0.0500	0.0553	111	82 - 122	7347
Styrene	mg/l	0.0500	0.0542	108	82 - 122	7353
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0524	105	85 - 123	7347
1,1,1,2-Tetrachloroethane	mg/l	0.0500	0.0511	102	85 - 123	7353
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0504	101	74 - 133	7347
1,1,2,2-Tetrachloroethane	mg/l	0.0500	0.0530	106	74 - 133	7353
Tetrachloroethene	mg/l	0.0500	0.0523	105	76 - 123	7347
Tetrachloroethene	mg/l	0.0500	0.0496	99	76 - 123	7353
Toluene	mg/l	0.0500	0.0520	104	78 - 127	7347
Toluene	mg/l	0.0500	0.0471	94	78 - 127	7353
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0498	100	59 - 132	7347
1,2,3-Trichlorobenzene	mg/l	0.0500	0.0488	98	59 - 132	7353
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0490	98	60 - 133	7347
1,2,4-Trichlorobenzene	mg/l	0.0500	0.0478	96	60 - 133	7353
1,1,1-Trichloroethane	mg/l	0.0500	0.0508	102	74 - 128	7347

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PROJECT QUALITY CONTROL DATA  
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#### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
1,1,1-Trichloroethane	mg/l	0.0500	0.0446	89	74 - 128	7353
1,1,2-Trichloroethane	mg/l	0.0500	0.0507	101	85 - 125	7347
1,1,2-Trichloroethane	mg/l	0.0500	0.0476	95	85 - 125	7353
Trichloroethene	mg/l	0.0500	0.0536	107	78 - 125	7347
Trichloroethene	mg/l	0.0500	0.0454	91	78 - 125	7353
1,2,3-Trichloropropane	mg/l	0.0500	0.0523	105	75 - 130	7347
1,2,3-Trichloropropane	mg/l	0.0500	0.0511	102	75 - 130	7353
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0533	107	77 - 122	7347
1,2,4-Trimethylbenzene	mg/l	0.0500	0.0516	103	77 - 122	7353
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0531	106	75 - 125	7347
1,3,5-Trimethylbenzene	mg/l	0.0500	0.0512	102	75 - 125	7353
Vinyl chloride	mg/l	0.0500	0.0536	107	61 - 140	7347
Vinyl chloride	mg/l	0.0500	0.0449	90	61 - 140	7353
Xylenes (Total)	mg/l	0.150	0.163	109	77 - 126	7347
Xylenes (Total)	mg/l	0.150	0.157	105	77 - 126	7353
Bromodichloromethane	mg/l	0.0500	0.0504	101	79 - 126	7347
Bromodichloromethane	mg/l	0.0500	0.0468	94	79 - 126	7353
Trichlorofluoromethane	mg/l	0.0500	0.0541	108	60 - 140	7347
Trichlorofluoromethane	mg/l	0.0500	0.0490	98	60 - 140	7353
VOA Surr 1,2-DCA-d4	% Rec			96	56 - 155	7347
VOA Surr 1,2-DCA-d4	% Rec			87	56 - 155	7353
VOA Surr Toluene-d8	% Rec			101	79 - 130	7347
VOA Surr Toluene-d8	% Rec			96	79 - 130	7353
VOA Surr, 4-BFB	% Rec			99	62 - 155	7347
VOA Surr, 4-BFB	% Rec			95	62 - 155	7353
VOA Surr, DBFM	% Rec			98	74 - 127	7347
VOA Surr, DBFM	% Rec			90	74 - 127	7353

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PROJECT QUALITY CONTROL DATA  
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
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Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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**\*\*VOA PARAMETERS\*\***

Acetone	< 0.00470	mg/l	7347	7/ 6/02	15:23
Acetone	< 0.00470	mg/l	7353	7/ 7/02	17:38
Benzene	< 0.00050	mg/l	7347	7/ 6/02	15:23
Benzene	< 0.00050	mg/l	7353	7/ 7/02	17:38
Bromobenzene	< 0.00030	mg/l	7347	7/ 6/02	15:23
Bromobenzene	< 0.00030	mg/l	7353	7/ 7/02	17:38
Bromochloromethane	< 0.00030	mg/l	7347	7/ 6/02	15:23
Bromochloromethane	< 0.00030	mg/l	7353	7/ 7/02	17:38
Bromoform	< 0.00060	mg/l	7347	7/ 6/02	15:23
Bromoform	< 0.00060	mg/l	7353	7/ 7/02	17:38
Bromomethane	< 0.00060	mg/l	7347	7/ 6/02	15:23
Bromomethane	< 0.00060	mg/l	7353	7/ 7/02	17:38
2-Butanone	< 0.00310	mg/l	7347	7/ 6/02	15:23
2-Butanone	< 0.00310	mg/l	7353	7/ 7/02	17:38
n-Butylbenzene	< 0.00010	mg/l	7347	7/ 6/02	15:23
n-Butylbenzene	< 0.00010	mg/l	7353	7/ 7/02	17:38
sec-Butylbenzene	< 0.00030	mg/l	7347	7/ 6/02	15:23
sec-Butylbenzene	< 0.00030	mg/l	7353	7/ 7/02	17:38
t-Butylbenzene	< 0.00030	mg/l	7347	7/ 6/02	15:23
t-Butylbenzene	< 0.00030	mg/l	7353	7/ 7/02	17:38
Carbon disulfide	< 0.00020	mg/l	7347	7/ 6/02	15:23
Carbon disulfide	< 0.00020	mg/l	7353	7/ 7/02	17:38
Carbon tetrachloride	< 0.00040	mg/l	7347	7/ 6/02	15:23
Carbon tetrachloride	< 0.00040	mg/l	7353	7/ 7/02	17:38
Chlorobenzene	< 0.00020	mg/l	7347	7/ 6/02	15:23
Chlorobenzene	< 0.00020	mg/l	7353	7/ 7/02	17:38

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## PROJECT QUALITY CONTROL DATA

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### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Chloroethane	< 0.00100	mg/l	7347	7/ 6/02	15:23
Chloroethane	< 0.00100	mg/l	7353	7/ 7/02	17:38
Chloroform	< 0.00080	mg/l	7347	7/ 6/02	15:23
Chloroform	< 0.00080	mg/l	7353	7/ 7/02	17:38
Chloromethane	< 0.00070	mg/l	7347	7/ 6/02	15:23
Chloromethane	< 0.00070	mg/l	7353	7/ 7/02	17:38
2-Chlorotoluene	< 0.00040	mg/l	7347	7/ 6/02	15:23
2-Chlorotoluene	< 0.00040	mg/l	7353	7/ 7/02	17:38
4-Chlorotoluene	< 0.00050	mg/l	7347	7/ 6/02	15:23
4-Chlorotoluene	< 0.00050	mg/l	7353	7/ 7/02	17:38
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	7347	7/ 6/02	15:23
1,2-Dibromo-3-chloropropane	< 0.00070	mg/l	7353	7/ 7/02	17:38
Dibromochloromethane	< 0.00050	mg/l	7347	7/ 6/02	15:23
Dibromochloromethane	< 0.00050	mg/l	7353	7/ 7/02	17:38
1,2-Dibromoethane	< 0.00040	mg/l	7347	7/ 6/02	15:23
1,2-Dibromoethane	< 0.00040	mg/l	7353	7/ 7/02	17:38
Dibromomethane	< 0.00090	mg/l	7347	7/ 6/02	15:23
Dibromomethane	< 0.00090	mg/l	7353	7/ 7/02	17:38
1,2-Dichlorobenzene	< 0.00020	mg/l	7347	7/ 6/02	15:23
1,2-Dichlorobenzene	< 0.00020	mg/l	7353	7/ 7/02	17:38
1,3-Dichlorobenzene	< 0.00030	mg/l	7347	7/ 6/02	15:23
1,3-Dichlorobenzene	< 0.00030	mg/l	7353	7/ 7/02	17:38
1,4-Dichlorobenzene	< 0.00040	mg/l	7347	7/ 6/02	15:23
1,4-Dichlorobenzene	< 0.00040	mg/l	7353	7/ 7/02	17:38
Dichlorodifluoromethane	< 0.00050	mg/l	7347	7/ 6/02	15:23
Dichlorodifluoromethane	< 0.00050	mg/l	7353	7/ 7/02	17:38
1,1-Dichloroethane	< 0.00020	mg/l	7347	7/ 6/02	15:23
1,1-Dichloroethane	< 0.00020	mg/l	7353	7/ 7/02	17:38
1,2-Dichloroethane	< 0.00060	mg/l	7347	7/ 6/02	15:23
1,2-Dichloroethane	< 0.00060	mg/l	7353	7/ 7/02	17:38
1,1-Dichloroethene	< 0.00060	mg/l	7347	7/ 6/02	15:23
1,1-Dichloroethene	< 0.00060	mg/l	7353	7/ 7/02	17:38
cis-1,2-Dichloroethene	< 0.00060	mg/l	7347	7/ 6/02	15:23

Project QC continued . . .

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## Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
cis-1,2-Dichloroethene	< 0.00060	mg/l	7353	7/ 7/02	17:38
trans-1,2-Dichloroethene	< 0.00050	mg/l	7347	7/ 6/02	15:23
trans-1,2-Dichloroethene	< 0.00050	mg/l	7353	7/ 7/02	17:38
1,2-Dichloropropane	< 0.00040	mg/l	7347	7/ 6/02	15:23
1,2-Dichloropropane	< 0.00040	mg/l	7353	7/ 7/02	17:38
1,3-Dichloropropane	< 0.00040	mg/l	7347	7/ 6/02	15:23
1,3-Dichloropropane	< 0.00040	mg/l	7353	7/ 7/02	17:38
2,2-Dichloropropane	< 0.00040	mg/l	7347	7/ 6/02	15:23
2,2-Dichloropropane	< 0.00040	mg/l	7353	7/ 7/02	17:38
1,1-Dichloropropene	< 0.00050	mg/l	7347	7/ 6/02	15:23
1,1-Dichloropropene	< 0.00050	mg/l	7353	7/ 7/02	17:38
cis-1,3-Dichloropropene	< 0.00030	mg/l	7347	7/ 6/02	15:23
cis-1,3-Dichloropropene	< 0.00030	mg/l	7353	7/ 7/02	17:38
trans-1,3-Dichloropropene	< 0.00050	mg/l	7347	7/ 6/02	15:23
trans-1,3-Dichloropropene	< 0.00050	mg/l	7353	7/ 7/02	17:38
Ethylbenzene	< 0.00030	mg/l	7347	7/ 6/02	15:23
Ethylbenzene	< 0.00030	mg/l	7353	7/ 7/02	17:38
Hexachlorobutadiene	0.00100	mg/l	7347	7/ 6/02	15:23
Hexachlorobutadiene	0.00110	mg/l	7353	7/ 7/02	17:38
2-Hexanone	< 0.00420	mg/l	7347	7/ 6/02	15:23
2-Hexanone	< 0.00420	mg/l	7353	7/ 7/02	17:38
Isopropylbenzene	< 0.00040	mg/l	7347	7/ 6/02	15:23
Isopropylbenzene	< 0.00040	mg/l	7353	7/ 7/02	17:38
4-Isopropyltoluene	< 0.00060	mg/l	7347	7/ 6/02	15:23
4-Isopropyltoluene	< 0.00060	mg/l	7353	7/ 7/02	17:38
4-Methyl-2-pentanone	< 0.00490	mg/l	7347	7/ 6/02	15:23
4-Methyl-2-pentanone	< 0.00490	mg/l	7353	7/ 7/02	17:38
Methylene chloride	< 0.00360	mg/l	7347	7/ 6/02	15:23
Methylene chloride	< 0.00360	mg/l	7353	7/ 7/02	17:38
Naphthalene	< 0.00120	mg/l	7347	7/ 6/02	15:23
Naphthalene	< 0.00120	mg/l	7353	7/ 7/02	17:38
n-Propylbenzene	< 0.00030	mg/l	7347	7/ 6/02	15:23
n-Propylbenzene	< 0.00030	mg/l	7353	7/ 7/02	17:38

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## PROJECT QUALITY CONTROL DATA

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### Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Styrene	< 0.00040	mg/l	7347	7/ 6/02	15:23
Styrene	< 0.00040	mg/l	7353	7/ 7/02	17:38
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	7347	7/ 6/02	15:23
1,1,1,2-Tetrachloroethane	< 0.00060	mg/l	7353	7/ 7/02	17:38
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7347	7/ 6/02	15:23
1,1,2,2-Tetrachloroethane	< 0.00040	mg/l	7353	7/ 7/02	17:38
Tetrachloroethene	< 0.00040	mg/l	7347	7/ 6/02	15:23
Tetrachloroethene	< 0.00040	mg/l	7353	7/ 7/02	17:38
Toluene	< 0.00060	mg/l	7347	7/ 6/02	15:23
Toluene	< 0.00060	mg/l	7353	7/ 7/02	17:38
1,2,3-Trichlorobenzene	< 0.00100	mg/l	7347	7/ 6/02	15:23
1,2,3-Trichlorobenzene	< 0.00100	mg/l	7353	7/ 7/02	17:38
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7347	7/ 6/02	15:23
1,2,4-Trichlorobenzene	< 0.00060	mg/l	7353	7/ 7/02	17:38
1,1,1-Trichloroethane	< 0.00070	mg/l	7347	7/ 6/02	15:23
1,1,1-Trichloroethane	< 0.00070	mg/l	7353	7/ 7/02	17:38
1,1,2-Trichloroethane	< 0.00040	mg/l	7347	7/ 6/02	15:23
1,1,2-Trichloroethane	< 0.00040	mg/l	7353	7/ 7/02	17:38
Trichloroethene	< 0.00040	mg/l	7347	7/ 6/02	15:23
Trichloroethene	< 0.00040	mg/l	7353	7/ 7/02	17:38
1,2,3-Trichloropropane	< 0.00060	mg/l	7347	7/ 6/02	15:23
1,2,3-Trichloropropane	< 0.00060	mg/l	7353	7/ 7/02	17:38
1,2,4-Trimethylbenzene	< 0.00030	mg/l	7347	7/ 6/02	15:23
1,2,4-Trimethylbenzene	< 0.00030	mg/l	7353	7/ 7/02	17:38
1,3,5-Trimethylbenzene	< 0.00100	mg/l	7347	7/ 6/02	15:23
1,3,5-Trimethylbenzene	< 0.00100	mg/l	7353	7/ 7/02	17:38
Vinyl chloride	< 0.00050	mg/l	7347	7/ 6/02	15:23
Vinyl chloride	< 0.00050	mg/l	7353	7/ 7/02	17:38
Xylenes (Total)	< 0.00200	mg/l	7347	7/ 6/02	15:23
Xylenes (Total)	< 0.00200	mg/l	7353	7/ 7/02	17:38
Bromodichloromethane	< 0.00030	mg/l	7347	7/ 6/02	15:23
Bromodichloromethane	< 0.00030	mg/l	7353	7/ 7/02	17:38
Trichlorofluoromethane	< 0.00040	mg/l	7347	7/ 6/02	15:23

Project QC continued . . .

# TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA  
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## Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Analysis Date	Analysis Time
Trichlorofluoromethane	< 0.00040	mg/l	7353	7/ 7/02	17:38
VOA Surr 1,2-DCA-d4	95.	% Rec	7347	7/ 6/02	15:23
VOA Surr 1,2-DCA-d4	93.	% Rec	7353	7/ 7/02	17:38
VOA Surr Toluene-d8	94.	% Rec	7347	7/ 6/02	15:23
VOA Surr Toluene-d8	91.	% Rec	7353	7/ 7/02	17:38
VOA Surr, 4-BFB	100.	% Rec	7347	7/ 6/02	15:23
VOA Surr, 4-BFB	96.	% Rec	7353	7/ 7/02	17:38
VOA Surr, DBFM	96.	% Rec	7347	7/ 6/02	15:23
VOA Surr, DBFM	94.	% Rec	7353	7/ 7/02	17:38

# - Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 291447